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FORMULA INDEX.

THE following index of organic compounds of known empirical formula is arranged according to Richter's system (see *Lexikon der Kohlenstoff-Verbindungen*).

The elements are given in the order, C, H, O, N, Cl, Br, I, F, S, P, and the remainder alphabetically.

The compounds are arranged—

Firstly, in groups according to the number of carbon atoms (thus C_1 group, C_2 group, etc.).

Secondly, according to the number of other elements besides carbon contained in the molecule (thus 5 IV indicates that the molecule contains five carbon atoms and four other elements).

Thirdly, according to the nature of the elements present in the molecule (given in the above order).

Fourthly, according to the number of atoms of each single element (except carbon) present in the molecule.

Salts are placed with the compounds from which they are derived. The chlorides, bromides, iodides, and cyanides of quaternary ammonium bases, however, are registered as group-substances.

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$C_2H_5O_3N_3$ Biuret, properties of, 603.

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$C_3H_3O_2N$ Cyanoacetic acid, dissociation constant of, 516.
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$C_4H_4O_2N_2$ 4:6-Dihydroxypyrimidine, 389.
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$C_6H_5O_3N$ *p*-Nitrosophenol, tautomerism of, in systems with benzoquinone, 89.
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C_6H_6NI *p*-Iodoaniline, compound of, with *s*-trinitrobenzene, 153.
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$C_6H_9N_5S$ 4:6-Diamino-5-thioformamido-2-methylpyrimidine, 385.
$C_6H_9N_5S_2$ 4:6-Diamino-5-thioformamido-2-methylthiopyrimidine, 385.
$C_6H_{10}O_2N_2$ 3-Acetamidopyrrolidone, 40.
$C_6H_{10}N_4S$ 6-Amino-4-methylamino-2-methylthiopyrimidine, 385.
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C_7H_9N *m*-Toluidine, hydrochloride of, action of methyl alcohol on, 14.
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C_7H_5ON Anthranil, reaction of, with maleic anhydride, 654.
$C_7H_6ON_4$ Acetylformamidinomethylenemalononitrile, 387.
$C_7H_4OBr_2$ Dibromo-*p*-cresols, 526.
$C_7H_8ON_4$ 2-Hydroxy-6:9-dimethylpurine, 385.
$C_7H_9N_5S$ 2-Methylthio-9-methyladenine, 386.
$C_7H_{11}N_5S_2$ 6-Amino-4-methylamino-5-thioformamido-2-methylthiopyrimidine, 385.
$C_7H_{14}O_2N_2$ Malondi-iminoether, dihydrochloride of, 575.

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7 V

$C_7H_5ONCl_3Br$ 3:4:6-Trichloro-5-bromo-*o*-anisidine, 237.
$C_7H_6O_2N_2Br_2S$ Dibromo-*m*-toluidine-6-sulphonamide, 79.
$C_7H_9O_2N_2BrS$ Bromo-*m*-toluidine-6-sulphonamide, 78.

C_8 Group.

$C_8H_8O_3$ Mandelic acid, effect of heat on, 249.
Mandelic acids, solubilities of, in water, 231.
$C_8H_{10}O_2$ Acetylhex-3-en-5-yn-2-ol, 263.
$C_8H_{10}N_2$ 1:2-Dicyano*cyclo*hexane, 517.
$C_8H_{12}O_2$ Crotyl crotonate, 467.
$C_8H_{16}O_6$ Methyl β-methylgalactosides, 53.

8 III

$C_8H_5ON_3$ β-(α-Furyl)-β-aminomethylenemalononitrile, 390.
$C_8H_6O_2N_2$ Quinoxaline di-*N*-oxide, 324.
$C_8H_6O_3N_2$ 4:6-Dihydroxy-2-α-furylpyrimidine, 389.
C_8H_7ON 5-Hydroxyindole, 49.
$C_8H_7O_2Cl$ Phenylchloroacetic acid, sodium salt, hydrolysis of, 80.
$C_8H_7O_2Br$ Phenylbromoacetic acid, sodium salt, hydrolysis of, 80.
$C_8H_8OBr_2$ Dibromo-4-ethylphenols, 527.
$C_8H_9O_3N$ 5-Nitroso-*o*-tolyl methyl ether, 223.
6-Nitroso-*m*-tolyl methyl ether, 223.
$C_8H_{10}O_2N_4$ 1-Nitrophenyl-3:3-dimethyltriazens, 443.
$C_8H_{10}O_3Cl_2$ *trans*-Hexahydrophthaloyl chloride, 517.
$C_8H_{10}O_4N_4$ 2:4-Dinitro-β-aminoethylaniline, and its hydrochloride, 556.
$C_8H_{10}NCl$ *p*-Chloro-*N*-ethylaniline, 65.
$C_8H_{11}O_2N$ *trans*-1-Cyano*cyclo*hexane-2-carboxylic acid, 517.
$C_8H_{14}O_2N_2$ *dl*-3-Acetamidohomopiperidone, 40.
$C_8H_{15}O_3N$ Rosmarinecine, 454.

8 IV

$C_8H_4O_2N_3Cl_4$ Acetyl-2:3:5:6-tetrachloro-4-nitroaniline, 234.
2:3:5:6-Tetrachloro-*N*-nitroacetanilide, 372.
$C_8H_5ONCl_4$ Acetyltetrachloroaniline, 233.
$C_8H_5O_2N_2Cl$ 6-Chlorophthalaz-1:4-dione, 659.
$C_8H_5ON_3Cl_4$ 2:3:5:6-Tetrachloroaminoacetamidobenzene, 234.
$C_8H_8O_6N_2S$ *N*-*m*-Nitrobenzenesulphonylglycine, 378.
$C_8H_9ON_2Cl$ *p*-Chlorophenyl-*N*-ethylnitrosoamine, 67.
$C_8H_{11}O_3NS$ *m*-Cresol-6-sulphonamide, 79.
$C_8H_{16}NIS_2$ 2-Ethylthiodihydro-1:3-thiazine ethiodide, 246.

C_9 Group.

$C_9H_4O_2$ Triketohydrindene, 71.
C_9H_9Cl ά-Chloro-α-benzylethylene, 69.
$C_9H_{10}Br_2$ *o*-β-Bromoethylbenzyl bromide, syntheses with, 547, 550.
$C_9H_{14}O_3$ 1:3-Dioxanyl-5-*iso*butenyl ketone, 30.

9 III

$C_9H_6O_4N_2$ α-2:4-Dinitrophenylallene, 70.
C_9H_6NCl 5-Chloroquinoline, and its picrate, 444.
$C_9H_7O_3N$ α-*p*-Nitrophenylallylene, 70.
$C_9H_7O_3N$ 5-Hydroxyindole-2-carboxylic acid, 49.
$C_9H_8O_2N_2$ 2-Methylquinoxaline di-*N*-oxide, 324.
$C_9H_{10}ClAs$ 2-Chloro-1:2:3:4-tetrahydro*iso*arsinoline, 550.
$C_9H_{11}O_2N_3$ 1-*o*-Carboxyphenyl-3:3-dimethyltriazen, 443.
$C_9H_{12}O_3N_4$ 4-Methoxy-2-methylbenzenediazoaminocarbonamide, 223.
$C_9H_{12}O_4S$ 3-Ethoxytoluene-6-sulphonic acid, salts, 168.
$C_9H_{13}O_2N$ *cyclo*Hexylcyanoacetic acid, preparation of, and its dissociation constant, 216.
$C_9H_{13}O_3N$ Adrenaline, oxidation of, 48.
$C_9H_{17}ON$ 1-Methyl*cyclo*hexane-1-acetamide, 502.
$C_9H_{17}O_2Cl$ Ethyl β-chloro-αα-trimethyl-*n*-butyrate, 429.

9 IV

$C_9H_7O_4N_2Cl$ β-Chloro-α-2:4-dinitrophenyl-Δ^{α}-propylene, 70.
$C_9H_7O_4N_2Cl_3$ Acetyl-3:4:6-trichloro-5-nitro-*o*-anisidine, 236.
$C_9H_8O_2NCl$ β-Chloro-α-*p*-nitrophenyl-Δ^{α}-propylene, 70.
$C_9H_8O_2NCl_3$ Acetyl-3:4:6-trichloro-*o*-anisidine, 236.
$C_9H_8O_4N_2S$ 5-Acetamido-*o*-benzoicsulphinide, 79.
$C_9H_9O_2N_2Cl_3$ 3:4:6-Trichloro-2-acetamido-5-aminoanisole, 237.
$C_9H_{10}O_3NCl$ 4-Chloro-2-nitro-3:5-dimethylphenyl methyl ether, 445.
$C_9H_{10}O_8N_2S$ 2:4-Dinitro-3-ethoxytoluene-6-sulphonic acid, salts, 169.
$C_9H_{11}O_3ClS$ 3-Ethoxytoluene-6-sulphonyl chloride, 168.
$C_9H_{11}O_6NS$ 4-Nitro-3-ethoxytoluene-6-sulphonic acid, salts, 169.
$C_9H_{12}O_3N_2S$ Aceto-*m*-toluidide-6-sulphonamide, 78.
$C_9H_{18}O_2NI$ Rosmarinecine methiodide, 454.

9 V

$C_9H_7O_2NCl_3Br$ Acetyl-3:4:6-trichloro-5-bromo-*o*-anisidine, 237.
$C_9H_9O_7N_2ClS$ 2:4-Dinitro-3-ethoxytoluene-6-sulphonyl chloride, 169.
$C_9H_{10}O_5NClS$ 4-Nitro-3-ethoxytoluene-6-sulphonyl chloride, 169.
$C_9H_{11}O_3N_2BrS$ Bromoaceto-*m*-toluidide-6-sulphonamide, 78.

C_{10} Group.

$C_{10}H_{18}$ Dihydromyrcene, 476.

10 II

$C_{10}H_8N_2$ Quinolineamidines, and their salts, 420.
$C_{10}H_{10}O$ 1-*p*-Anisylprop-1-yne, 611.
$C_{10}H_{10}N_2$ 2:3-Dimethylquinoxaline, Diels–Alder synthesis with, 65[1].
$C_{10}H_{10}N_6$ 4:6-Diamino-5-benzeneazopyrimidine, 387.
$C_{10}H_{11}Cl$ β-Chloro-α-phenyl-Δ^{α}-butylene, 69.
$C_{10}H_{12}O_3$ 4-Ethoxy-*m*-toluic acid, 320.
*iso*Propoxybenzoic acid, 432.
$C_{10}H_{12}N_4$ 1:3:5:7-Tetra-aminonaphthalene, 36.
$C_{10}H_{12}As$ 2-Methyl-1:2:3:4-tetrahydro*iso*arsinoline, 549.
$C_{10}H_{14}O$ 7-Methylnonadienynols, 267.
$C_{10}H_{14}O_2$ Decadien-5-yndiols, 269.
$C_{10}H_{14}O_4$ Ethylene dimethacrylate, 239.
$C_{10}H_{15}N$ 2:4-Dimethyl-*N*-ethylaniline, 65.
$C_{10}H_{16}O$ Decenynols, 265.
5-Ethyloct-5-en-7-yn-4-ol, 264.
7-Methylnon-7-en-5-yn-4-ol, 267.
$C_{10}H_{16}O_5$ Senecic acid, 454.
$C_{10}H_{16}Cl_2$ Dichlorodihydromyrcene, 296.
$C_{10}H_{17}Cl$ Chlorodihydromyrcene, 296.
$C_{10}H_{18}O_2$ *n*-Hexyl methacrylate, 239.
$C_{10}H_{20}O$ 7-Methylnonanones, 267.
$C_{10}H_{22}O$ 7-Methylnonanols, 267.
$C_{10}H_{22}O_2$ Decane-2:9-diol, 269.

10 III

$C_{10}H_4O_8N_4$ Tetranitronaphthalenes, 33.
$C_{10}H_6O_4N_2$ 1:3-Dinitronaphthalene, preparation of, 433.
1:6-Dinitronaphthalene, preparation of, 86.
Dinitronaphthalenes, monoreduction of, 318.
$C_{10}H_5O_6N_4$ 2:4:6-Trinitro-1-naphthylamine, 393.
$C_{10}H_7ON$ Quinolinealdehydes, 415.
$C_{10}H_7OCl$ 4-Chloro-2-naphthol, 469.
$C_{10}H_7OI$ 4-Iodo-2-naphthol, 469.
$C_{10}H_7O_4N_3$ 2:3-Dinitro-1-naphthylamine, 635.
Dinitro-1-naphthylamines, 393.
$C_{10}H_7O_2N_2$ 3-Nitro-2-naphthylamine, and its picrate, 636.
6-Nitro-1-naphthylamine, halogenation, nitration, mercuration, and diazo-coupling of, 391.
$C_{10}H_8N_2S$ Quinolinethioamides, 419.
$C_{10}H_9ON_3$ Quinolinecarboxyhydrazides, 415.
$C_{10}H_9O_3N$ Methyl 5-hydroxyindole-2-carboxylate, 49.
$C_{10}H_{10}O_2N_4$ 1-Phenyl-3:3-dimethyltriazen-3′:4′-dicarboxyimide, 444.
$C_{10}H_{11}OCl$ Chloro-α-*p*-anisyl-Δ^{α}-propylenes, 611.
$C_{10}H_{11}OBr$ β-Bromo-α-*p*-anisyl-Δ^{α}-propylene, 611.
$C_{10}H_{11}O_2Cl$ 6-Chloro-4-methoxy-3-methylacetophenone, 500.
$C_{10}H_{11}O_3N$ 5-Nitro-4-ethoxy-*m*-toluic acid, 320.
$C_{10}H_{13}O_2N$ Ethyl 1-cyano*cyclo*hexane-2-carboxylate, 516.
β-3:4-Methylenedioxyphenyl*iso*propylamine, preparation of, 15.
$C_{10}H_{13}O_2N_3$ 1-*o*-Carbomethoxyphenyl-3:3-dimethyltriazen, 443.
$C_{10}H_{13}O_3N$ 4-Nitro-*o*-tolyl *n*-propyl ether, 432.
$C_{10}H_{13}Cl_2As$ 2-Methyl-1:2:3:4-tetrahydro*iso*arsinoline dichloride, 550.
$C_{10}H_{14}O_2N_2$ β-Hydroxypropylphenylcarbamide, 377.
$C_{11}H_{14}O_4N_2$ *d*-Ribobenziminazole, 628.
$C_{10}H_{15}O_3N$ Ethyl *cyclo*hexanone-2-carboxylate cyanohydrin, 516.
$C_{10}H_{16}O_4N_4$ 6-Amino-4-*d*-xylosidamino-2-methylpyrimidine, 574.
$C_{10}H_{17}O_2N$ 1-Methyl*cyclo*hexane-1-malonamic acid, 502.
$C_{10}H_{20}O_2N_2$ Decane-2:9-dione dioxime, 269.

10 IV

$C_{10}H_5ON_2Cl$ 4-Chloronaphthalene-1:2-diazo-oxide, 322.
$C_{10}H_5ON_2I$ 4-Iodonaphthalene-1:2-diazo-oxide, 322.
$C_{10}H_5O_2NBr_2$ 1:2- and 1:4-Dibromo-6-nitronaphthalenes, 392.
$C_{10}H_6O_2NCl$ 1-Chloro-6-nitronaphthalene, 392.
$C_{10}H_6O_2NBr$ 1-Bromo-6- and -7-nitronaphthalenes, 392.
$C_{10}H_6O_2NI$ 1-Iodo-6-nitronaphthalene, 392.
$C_{10}H_6O_2N_2Cl_2$ 2:4-Dichloro-6-nitro-1-naphthylamine, 392.
$C_{10}H_6O_2N_2Br_2$ 2:4-Dibromo-6-nitro-1-naphthylamine, 392.
$C_{10}H_6O_4N_2Cl_4$ Diacetyl-2:3:5:6-tetrachloro-4-nitroaniline, 234.
$C_{10}H_7O_2NCl_4$ Diacetyltetrachloroaniline, 233.
$C_{10}H_7O_2N_2Br$ 4-Bromo-6-nitro-1-naphthylamine, 392.
$C_{10}H_7O_2N_2I$ 4-Iodo-6-nitro-1-naphthylamine, 393.
$C_{10}H_8O_2N_2Cl_4$ 2:3:5:6-Tetrachloro-4-aminodiacetanilide, 234.
$C_{10}H_9O_4N_3Cl_2$ 3:5-Dichloro-1-nitro-2:6-diacetamidobenzene, 576.
$C_{10}H_{12}O_2N_2Br$ 2-Bromo-4-methoxyacetophenone semicarbazone, 526.
$C_{10}H_{12}O_3NCl$ 4-Chloro-2-nitro-3:5-dimethylphenyl ethyl ether, 445.
$C_{10}H_{12}O_5N_2S$ 4-Nitrobenzenesulphonylacetimino-ether, 103.
$C_{10}H_{12}O_6N_2S$ *N*-*m*-Nitrobenzenesulphonylglycine, ethyl ester, 378.
$C_{10}H_{12}O_4NS$ Phenylacetamidoethanesulphonic acid, sodium salt, 5.
$C_{10}H_{14}O_2NCl$ Ethyl 1-chloro-1-cyano*cyclo*hexane-2-carboxylate, 517.
$C_{10}H_{15}O_4N_2S$ γ-Amino-α-(*p*-aminobenzenesulphonamido)-*n*-butyric acid, 40.
$C_{10}H_{16}O_4N_4S$ 6-Amino-4-*d*-xylosidamino-2-methylthiopyrimidine, 572.

10 V

$C_{10}H_5O_2NBrI$ Bromoiodo-6-nitronaphthalenes, 393.

C_{11} Group.

$C_{11}H_8O_5$ α-(β-2-Furylacrylyl)tetronic acid, 242.
$C_{11}H_{10}O_2$ 2:7-Dimethylchromone, 434.
$C_{11}H_{10}N_2$ *o*-Aminophenylpyridines, and their picrates, 317.
$C_{11}H_{11}N_3$ α-3:4-Diaminophenylpyridine, 405.
β-3:4-Diaminophenylpyridine, 413.
$C_{11}H_{12}O_4$ Propionylmandelic acids, 228.
$C_{11}H_{13}Cl$ β-Chloro-α-phenyl-Δ^{α}-amylene, 69.
$C_{11}H_{14}O$ 6-Hydroxy-5-methyltetralin, 493.
$C_{11}H_{14}O_3$ *n*-Butoxybenzoic acid, 432.
$C_{11}H_{15}O$ 6-Methylcarvomenthone, 502.

11 III

$C_{11}H_4O_3Cl_6$ 5:7-Dichloro-6-methoxy-2:4-bisdichloromethylene-1:3-benzdioxin, 320.
$C_{11}H_6O_3Cl_8$ 5:7-Dichloro-6-methoxy-2:4-bistrichloromethyl-1:3-benzdioxin, 320.
$C_{11}H_7O_3Cl$ 7-Chloro-4-hydroxy-2-naphthoic acid, 12.
$C_{11}H_8O_3N_2$ 6-Nitroformo-1-naphthalide, 391.
α-3-Nitro-4-hydroxyphenylpyridine, 412.
$C_{11}H_9ON$ γ-3-Hydroxyphenylpyridine, 411.
$C_{11}H_9OCl$ 4-Chloro-2-naphthyl methyl ether, 469.
$C_{11}H_9OBr$ 4-Bromo-2-naphthyl methyl ether, 469.
$C_{11}H_9OI$ 4-Iodo-2-naphthyl methyl ether, 469.
$C_{11}H_9O_2N_3$ α-3-Nitro-4-aminophenylpyridine, 405.
$C_{11}H_9O_2I$ 4-Iodo-2-naphthyl acetate, 469.
$C_{11}H_9O_2N_3$ β-3-Nitro-4-aminophenylpyridine, 413.
$C_{11}H_9O_3Cl$ 3-Chlorobenzylsuccinic anhydride, 12.
$C_{11}H_9O_3Br$ 3-Bromo-4-keto-1:2:3:4-tetrahydro-2-naphthoic acid, 12.
$C_{11}H_{10}ON_2$ α-3-Amino-4-hydroxyphenylpyridine, 412.
$C_{11}H_{11}O_4Cl$ 3-Chlorobenzylsuccinic acid, 12.
$C_{11}H_{11}O_6N_3$ Crotyl-3:5-dinitrophenylurethane, 467.
$C_{11}H_{13}O_3N$ β-Ethoxy-α-*p*-nitrophenyl-Δ^{α}-propylene, 70.
$C_{11}H_{16}IAs$ 2-Methyl-1:2:3:4-tetrahydro*iso*arsinoline methiodide, 549.
$C_{11}H_{23}ON_3$ 7-Methylnonan-2-one semicarbazone, 267.

11 IV

$C_{11}H_5O_4NCl_4$ 7-Nitro-6-methyl-2:4-bisdichloromethylene-1:3-benzdioxin, 320.
$C_{11}H_7O_2NCl_4$ 8-Amino-6-methyl-2:4-bisdichloromethylene-1:3-benzdioxin, 320.
$C_{11}H_7O_4NCl_6$ Nitro-6-methyl-2:4-bistrichloromethyl-1:3-benzdioxins, 320.
$C_{11}H_8O_3ClBr$ 7-Chloro-3-bromo-4-keto-1:2:3:4-tetrahydro-2-naphthoic acid, 12.
$C_{11}H_9O_2NCl_6$ 8-Amino-6-methyl-2:4-bistrichloromethyl-1:3-benzdioxin, 320.
$C_{11}H_9O_5N_2Cl_3$ Diacetyl-3:4:6-trichloro-5-nitro-*o*-anisidine, 236.
$C_{11}H_{10}O_3NCl_3$ Diacetyl-3:4:6-trichloro-*o*-anisidine, 236.
$C_{11}H_{11}O_2N_2Cl_3$ 2-Diacetyl-3:4:6-trichloro-5-amino-*o*-anisidine, 237.
3:4:6-Trichloro-2:5-diacetamidoanisole, 237.
$C_{11}H_{13}ON_2I$ 2-Keto-1:3-dimethyl-1:2-dihydroquinoxaline, 396.
$C_{11}H_{13}O_4NS$ *N*-Benzenesulphonyl-*N*-allylglycine, 376.
N-Benzenesulphonyl-6-methyl-2-morpholone, 376.
$C_{11}H_{13}O_5NS$ *N*-Benzenesulphonyl-*N*-acetonylglycine, 377.
$C_{11}H_{14}ON_2S_2$ 5:2′-(3′-Methyltetrahydrothiazolyl)ethylidene-3-ethylrhodanine, 249.
$C_{11}H_{14}O_3NCl$ 4-Chloro-2-nitro-3:5-dimethylphenyl *n*-propyl ether, 445.

$C_{11}H_{13}O_4NS$ Ethyl benzenesulphonyl-α-aminopropionate, 378.
Phenylpropionamidoethanesulphonic acid, sodium salt, 5.
$C_{11}H_{16}ON_2S_3$ 5:2′-(3′-Ethyltetrahydro-1′:3′-thiazyl)-3-ethylrhodanine, 249.
$C_{11}H_{18}O_5N_4S$ 6-Amino-4-*d*-mannosidamino-2-methylthiopyrimidine, 573.

11 V

$C_{11}H_{13}O_4NBr_2S$ *N*-Benzenesulphonyl-*N*-βγ-dibromopropylglycine, 378.

C_{12} Group.

$C_{12}H_8$ Diphenylene, 326.

12 II

$C_{12}H_{10}O_3$ 4-Hydroxy-1-methyl-2-naphthoic acid, 13.
4-Hydroxy-6-methyl-2-naphthoic acid, 12.
$C_{12}H_{10}O_4$ 4-Hydroxy-6-methoxy-2-naphthoic acid, 12.
$C_{12}H_{10}N_2$ 9-Aminocarbazole, and its picrate, 660.
$C_{12}H_{12}O$ 2:4-Dimethylnaphthol, 168.
$C_{12}H_{12}O_2$ γ-Phenyl-αα-dimethyl-Δ^{β}-butyrolactone, 428.
$C_{12}H_{12}O_3$ 4-*tert.*-Butylphthalic anhydride, 145.
4-Keto-6-methyl-1:2:3:4-tetrahydro-2-naphthoic acid, 12.
4-Methylbenzylsuccinic anhydride, 12.
$C_{12}H_{12}O_4$ 4-Keto-6-methoxy-1:2:3:4-tetrahydro-2-naphthoic acid, 12.
4-Methoxybenzylsuccinic anhydride, 12.
$C_{12}H_{13}N_3$ 1-β-Naphthyl-3:3-dimethyltriazen, 444.
$C_{12}H_{14}O_2$ 6-Methoxy-5-methyl-1-tetralone, 493.
$C_{12}H_{14}O_3$ β-Benzoyl-α-methylbutyric acid, 428.
2-Methoxy-4-methylbenzoylacetone, 434.
$C_{12}H_{14}O_4$ 4-*tert.*-Butylphthalic acid, 145.
4-Methylbenzylsuccinic acid, 12.
$C_{12}H_{14}O_5$ 4-Methoxybenzylsuccinic acid, 12.
$C_{12}H_{16}O$ 6-Methoxy-5-methyltetralin, 493.
$C_{12}H_{16}O_2$ β-Phenyl-αα-dimethyl-*n*-butyric acid, 429.
$C_{12}H_{16}O_3$ *n*-Amyloxybenzoic acid, 432.
$C_{12}H_{20}O$ 2-Keto-9:10-dimethyldecalin, 502.

12 III

$C_{12}H_6O_9N_4$ Dinitrobenzeneazophenols, 380.
$C_{12}H_8N_2S$ 8-2′-Thiazylquinoline, 420.
$C_{12}H_9O_2Cl$ 4-Chloro-2-naphthyl acetate, 469.
$C_{12}H_9O_2Br$ 4-Bromo-2-naphthyl acetate, 469.
$C_{12}H_9NS$ 2-Methyl*peri*naphtha-1:3-thiazine, 489.
$C_{12}H_{10}O_2N_2$ *N*-Nitronitroso-1-naphthalide, 285.
$C_{12}H_{10}O_3N$ β-2-Nitro-5-methoxypyridine, 411.
$C_{12}H_{10}O_3N_2$ 3-Nitroaceto-2-naphthalide, 636.
α-Nitroaminophenyl-β-(2-furyl)ethylenes, 451.
Nitromethoxyphenylpyridines, and their picrates, 410.
$C_{12}H_{10}O_4N_2$ 2-Keto-1-methyl-1:2-dihydroquinoxaline-3-pyruvic acid, 400.
$C_{12}H_{11}O_2N$ Ethyl quinolinecarboxylates, 415.
$C_{12}H_{11}O_3Br$ 3-Bromo-4-keto-6-methyl-1:2:3:4-tetrahydro-2-naphthoic acid, 12.
$C_{12}H_{11}O_4Br$ 3-Bromo-4-keto-6-methoxy-1:2:3:4-tetrahydro-2-naphthoic acid, 12.
$C_{12}H_{12}ON_2$ Aminomethoxyphenylpyridines, 410.
$C_{12}H_{12}O_2N_2$ 1:2:3:4-Tetrahydrophenazine di-*N*-oxide, 325.
$C_{12}H_{13}O_5N$ *l*-Methylsuccinylanthranilic acid, 141.
$C_{12}H_{14}O_2Br_2$ Dibromo-6-hydroxy-2:4-diethylacetophenone, 274.
$C_{12}H_{15}O_2N$ αγ-Dimethylallyl phenylurethane, 351.
$C_{12}H_{15}O_3Br$ Bromo-6-hydroxy-3:4-diethylacetophenone, 274.
$C_{12}H_{15}O_4N_3$ Methyl 1-phenyl-3:3-dimethyltriazen-3′:4′-dicarboxylate, 444.
$C_{12}H_{19}O_2N$ Ethyl 1-methyl*cyclo*hexane-1-cyanoacetate, 502.

12 IV

$C_{12}H_8O_9N_2Cl_2$ 2:4-Dichloro-6-nitroaceto-1-naphthalide, 392.
$C_{12}H_{10}O_4N_2Hg$ 6-Nitro-1-naphthylamine-4-mercuriacetate, 393.
$C_{12}H_{13}O_6NS$ Acetylmandelamidoethanesulphonic acid, sodium salt, 5.
$C_{12}H_{15}O_4NS$ *N*-Benzenesulphonyl-*N*-allylalanine, 378.
N-Benzenesulphonyldimethyl-2-morpholones, 377.
N-Benzenesulphonyl-*N*-β-methylallylglycine, 377.
N-*p*-Toluenesulphonyl-*N*-allylglycine, 376.
N-*p*-Toluenesulphonyl-6-methyl-2-morpholone, 376.
$C_{12}H_{15}O_4N_3S$ 3-(*p*-Acetamidobenzenesulphonamido)pyrrolidone, 40.
$C_{12}H_{16}ON_2S_3$ 5:2′-(3′-Methyltetrahydro-1′:3′-thiazyl)ethylidene-3-ethylrhodanine, 249.
$C_{12}H_{17}O_4NS$ Ethyl *p*-toluenesulphonyl-α-aminepropionate, 378.
Mesitylenesulphonylalanine, 378.
$C_{12}H_{17}O_5NS$ *N*-*p*-Toluenesulphonyl-*N*-β-hydroxypropylglycine, 376.
$C_{12}H_{18}O_5N_4S$ 6-Acetamido-4-*d*-xylosidamino-2-methylthiopyrimidine, 573.
$C_{12}H_{19}O_4N_3S$ ε-Amino-α-(*p*-aminobenzenesulphonamido)-*n*-hexoic acid, 40.

12 V

$C_{12}H_{13}O_4NBr_2S$ *N*-Benzenesulphonyl-*N*-βγ-dibromopropylglycine, methyl ester, 378.
N-*p*-Toluenesulphonyl-*N*-βγ-dibromopropylglycine, 378.

C_{13} Group.

$C_{13}H_9N_3$ 6-β-Pyridylquinoxaline, 413.
$C_{13}H_{10}O_4$ α-(β-Phenylacrylyl)tetronic acid, 242.
$C_{13}H_{10}S$ Thiobenzophenone, photo-oxidation of, 275.
$C_{13}H_{11}N_3$ 3:5-Diaminoacridine, 461.
$C_{13}H_{12}O_3$ 4-Methoxy-1-methyl-2-naphthoic acid, 13.
Methyl 4-hydroxy-1-methyl-2-naphthoate, 13.
$C_{13}H_{12}O_4$ α-(β-Phenylpropionyl)tetronic acid, 242.
$C_{13}H_{13}N_3$ 8-γ-Cyanopropylaminoquinoline, 560.
$C_{13}H_{14}O$ 2-Methoxy-1:5-dimethylnaphthalene, 493.
$C_{13}H_{14}O_2$ γ-Phenyl-ααβ-trimethyl-Δ^{β}-butyrolactone, 428.
$C_{13}H_{14}N_2$ 4-*p*-Aminophenyl-2:6-dimethylpyridine, 416.
$C_{13}H_{16}O$ 2-2:3:3-Tetramethyl-α-hydrindone, 429.
$C_{13}H_{16}O_3$ 6-Methoxy-2:5-dimethyl-1-tetralone, 494.
γ-Phenyl-ααβ-trimethylbutyrolactone, 428.
$C_{13}H_{16}O_3$ β-Benzoyl-αα-dimethyl-*n*-butyric acid, 428.
α-2-Methoxy-4-methylbenzoyl-α-methylactone, 434.
Methyl β-benzoyl-αα-dimethylpropionate, 428.
Methyl β-benzoyl-ββ-dimethylpropionate, 429.
Methyl β-benzoyl-α-methylbutyrate, 428.
$C_{13}H_{16}N_4$ 8-γ-Guanylpropylaminoquinoline, and its hydrochloride, 560.
$C_{13}H_{18}O_2$ Methyl β-phenyl-αα-dimethyl-*n*-butyrate, 429.
β-Phenyl-ααβ-trimethyl-*n*-butyric acid, 428.
$C_{13}H_{18}O_3$ *n*-Hexyloxybenzoic acid, 432.

13 III

$C_{13}H_9O_2N_3$ 4-Pyridylphthalimides, 444.
$C_{13}H_9O_2N_4$ 4-Amino-5-cyano-2:6-di-α-furylpyrimidine, 390.
$C_{13}H_9ON$ 4-Hydroxyacridine, 461.
$C_{13}H_9O_2N_3$ 3-Nitro-5-aminoacridine, and its hydrochloride, 461.
$C_{13}H_{10}O_3N_2$ 2-Nitrodiphenylamine-2′-aldehyde, 460.
$C_{13}H_{10}N_2S$ Methylthiazylquinolines, 419.
$C_{13}H_{11}OCl$ *m*-Chlorophenyl benzyl ether, 432.
$C_{13}H_{11}O_3N_2$ α-3-Nitro-4-acetamidophenylpyridine, 405.
$C_{13}H_{12}O_3N_4$ 4′-Nitro-4-hydroxy-2-methyldiazoaminobenzene, 223.
$C_{13}H_{13}O_2N$ Hex-3-en-5-yn-2-ol phenylurethane, 263.
$C_{13}H_{13}O_4N$ 5:6-Diacetoxy-1-methylindole, 48.
$C_{13}H_{15}O_3N$ Nitro-2:2:3:3-tetramethyl-α-hydrindone, 429.
$C_{13}H_{16}O_2N_2$ 8-γ-Hydroxypropylamino-6-methoxyquinoline, 561.
$C_{13}H_{17}ON_3$ 8-γ-Aminopropyl-γ-aminopropyl-6-methoxyquinoline, and its meconate, 557.
$C_{13}H_{17}O_4N$ β-Nitrophenyl-ααβ-trimethyl-*n*-butyric acid, 429.
$C_{13}H_{23}ON_3$ 2-Keto-9:10-dimethyldecalin semicarbazone, 502.

13 IV

$C_{13}H_9OCl_2Br$ 3:5-Dichlorophenyl *p*-bromobenzyl ether, 432.
$C_{13}H_9O_3NCl_4$ 8-Acetamido-6-methyl-2:4-bisdichloromethylene-1:3-benzdioxin, 320.
$C_{13}H_{10}O_2N_2S$ 4-Aminobenzenesulphonylbenzamidine, 103.
$C_{13}H_{10}O_3NF$ *m*-Fluorophenyl *o*-nitrobenzyl ether, 432.
$C_{13}H_{11}O_3NCl_6$ 8-Acetamido-6-methyl-2:4-bistrichloromethyl-1:3-benzdioxin, 320.
$C_{13}H_{11}O_4N_2S$ *N*-4-Nitrobenzenesulphonylbenzamidine, 103.
$C_{13}H_{12}O_2NI$ 2-Iodo-5:6-diacetoxy-1-methylindole, 48.
$C_{13}H_{15}ON_2Cl$ 8-γ-Chloropropylamino-6-methoxyquinoline, 562.
$C_{13}H_{16}O_6N_2S$ Ethyl *N*-*m*-nitrobenzenesulphonyl-*N*-allylaminoacetate, 378.
$C_{13}H_{17}O_4NS$ *N*-*p*-Toluenesulphonyl-6:6-dimethyl-2-morpholone, 377.
N-*p*-Toluenesulphonyl-*N*-β-methylallylglycine, 377.
$C_{13}H_{17}N_2IS$ 2-β-Anilinovinyldihydro-1:3-thiazine methiodide, 247.
$C_{13}H_{19}O_4NS$ Ethyl mesitylenesulphonamidoacetate, 377.
$C_{13}H_{20}O_8N_4S$ 6-Acetamido-4-*d*-mannosidamino-2-methylthiolpyrimidine, 573.
$C_{13}H_{21}N_2IS_2$ Bis-2-(3-methyldihydro-1:3-thiazine)trimethincyanine iodide, 249.

13 V

$C_{13}H_{16}O_6N_2Br_2S$ Ethyl *N*-*m*-nitrobenzenesulphonyl-*N*-allylaminoacetate dibromide, 378.
$C_{13}H_{17}O_4NBr_2S$ *N*-Benzenesulphonyl-*N*-βγ-dibromopropylglycine, ethyl ester, 378.

C_{14} Group.

$C_{14}H_{16}$ β-*tert.*-Butylnaphthalene, 144.

14 II

$C_{14}H_9Br_3$ 4:4′-α-Tribromostilbene, 3.
$C_{14}H_{10}O_3$ 2′:3′-Diketo-4-methoxy-1:2-*cyclo*pentenonaphthalene, 499.
$C_{14}H_{10}N_2$ Pyridylquinolines, and their salts, 403.
$C_{14}H_{10}Br_2$ Dibromostilbenes, 3.
$C_{14}H_{10}Br_4$ Tetrabromo-ααβ-diphenylethanes, 2.
$C_{14}H_{11}N_3$ 8-Amino-6-α-pyridylquinoline, 405.
$C_{14}H_{12}O_3$ *m*-Benzyloxybenzoic acid, 432.
Furfurylidene-3-methoxyacetophenone, 499.
$C_{14}H_{12}O_5$ α-(β-*p*-Methoxyphenylacrylyl)tetronic acid, 242.

$C_{14}H_{13}N_3$ 5-Imino-10-methylacridane, 461.
5-Methylaminoacridine, 461.
$C_{14}H_{12}Br_2$ $a\beta$-Dibromo-$a\beta$-diphenylethane, 2.
$C_{14}H_{14}O_2$ 2-*tert.*-Butyl-1:4-naphthaquinone, 145.
$C_{14}H_{14}O_3$ Ethyl 4-hydroxy-1-methyl-2-naphthoate, 13.
Methyl 4-methoxy-1-methyl-2-naphthoate, 13.
$C_{14}H_{14}O_4$ 3-*m*-Methoxyphenyl-Δ^2-*cyclo*penten-1-one-2-acetic acid, 499.
$C_{14}H_{16}O_2$ 2:7-Dimethyl-3-*n*-propylchromone, 434.
$C_{14}H_{16}O_4$ Methyl 6-methoxy-5-methyl-1-tetralone-2-carboxylate, 494.
$C_{14}H_{16}O_5$ 4:7-Diketo-*m*-methoxyphenylheptoic acid, 499.
$C_{14}H_{18}O$ 1-Keto-7-*tert.*-butyl-1:2:3:4-tetrahydronaphthalene, 145.
12-Methyl-1:2:3:4:12:13-hexahydroxanthen, 476.
$C_{14}H_{18}O_3$ a-2-Methoxy-4-methylbenzoyl-a-ethylacetone, 434.
Methyl β-benzoyl-$a a$-dimethyl-*n*-butyrate, 428.
Methyl $a\beta\beta$-trimethylpropionate, 429.
$C_{14}H_{18}O_4$ Deca-3:7-dien-5-yn-2:9-diol diacetate, 269.
$C_{14}H_{20}O_2$ Methyl β-phenyl-$a\beta\beta$-trimethyl-*n*-butyrate, 429.
β-*p*-Tolyl-$a a\beta$-trimethyl-*n*-butyric acid, 428.
$C_{14}H_{20}O_3$ *n*-Heptyloxybenzoic acid, 432.

14 III

$C_{14}H_8O_5N_2$ 2-Nitroacridone-7-carboxylic acid, 458.
$C_{14}H_9O_2N_3$ 8-Nitro-6-a-pyridylquinoline, 405.
$C_{14}H_{10}ON_2$ 8-Hydroxy-5-a-pyridylquinoline, 412.
$C_{14}H_{10}O_3N_2$ 2-Aminoacridine-7-carboxylic acid, 458.
$C_{14}H_{10}O_5N_2$ 6-Nitronaphthyl-1-maleamic acid, 391.
$C_{14}H_{10}O_6N_2$ 5-Nitrodiphenylamine-2:4′-dicarboxylic acid, 458.
$C_{14}H_{11}O_2N_3$ 3-Nitro-7-amino-5-methylacridine, 346.
$C_{14}H_{11}O_3Cl$ *m*-(*p*′-Chlorobenzyloxy)benzoic acid, 432.
$C_{14}H_{11}O_3Br$ *m*-(*p*′-Bromobenzyloxy)benzoic acid, 432.
$C_{14}O_{11}O_3F$ *m*-(*p*′-Fluorobenzyloxy)benzoic acid, 432.
$C_{14}H_{13}O_4N_2$ a-Nitroacetamidophenyl-β-(2-furyl)ethylenes, 451.
$C_{14}H_{13}ON$ Phenacylaniline, and its salts, 63.
$C_{14}H_{13}O_3N$ 2-Nitro-5-benzyloxytoluene, 49.
4-Nitro-*o*-tolyl benzyl ether, 432.
$C_{14}H_{13}N_2Cl$ *p*-Chloroacetophenone phenylhydrazone, 67.
$C_{14}H_{13}N_2Br$ Amino-10-methylacridinium bromides, 460.
$C_{14}H_{14}ON_2$ 5-Amino-5-hydroxy-10-methylacridane, 460.
$C_{14}H_{14}O_2N_2$ Acetamidomethoxyphenylpyridines, 410.
$C_{14}H_{14}O_2N_4$ 4′-Nitro-4-methoxy-3-methyl-3-methyldiazoaminobenzene, 223.
$C_{14}H_{14}O_3N_2$ Ethyl 2-keto-1-methyl-1:2-dihydroquinoxaline-3-pyruvate, 400.
Ethyl 3-methyl-4-quinazolonyl-2-pyruvate, 400.
$C_{14}H_{15}O_3N$ Dimethylbutylcarbinyl phenylurethane, 263.
2-Methylhex-3-en-5-yn-2-ol phenylurethane, 263.
$C_{14}H_{15}O_4N_3$ Ethyl 2-keto-1-methyl-1:2-dihydroquinoxaline-3-pyruvate oxime, 400.
$C_{14}H_{16}O_2N_2$ Phthalo-γ-(γ-bromopropylamino)propylimide, hydrobromide of, 556.
$C_{14}H_{18}O_2N_2$ 2-Methyl-3-*n*-amylquinoxaline di-*N*-oxide, 325.
$C_{14}H_{19}ON_3$ 8-γ-Methylaminopropylamino-6-methoxyquinoline, and its salts, 562.
$C_{14}H_{21}ON$ γ-(*p*-*tert.*-Butylphenyl)butyramide, 145.

14 IV

$C_{14}H_{10}O_5N_2S$ 1:4-Diaminoanthraquinone-2-sulphonic acid, sodium salt, 47.
$C_{14}H_{11}ON_2Cl$ 2-Chloro-5-amino-7-methoxyacridine, 654.
$C_{14}H_{12}ONCl$ *p*-Chlorophenacylaniline, 63.
$C_{14}H_{12}O_4N_2Cl_4$ 2:3:5:6-Tetrachloro-1:4-diacetamidobenzene, 234.
$C_{14}H_{14}O_3N_2S$ Benzo-*m*-toluidide-6-sulphonamide, 79.
$C_{14}H_{17}N_2IS_2$ [2-(3-Methyldihydro-1:3-thiazine)][2-(3-methylbenzthiazole)]methincyanine iodide, 247.
$C_{14}H_{16}O_4N_2S$ 3-(*p*-Acetamidobenzenesulphonamido)homopiperidone, 40.
$C_{14}H_{20}O_3NCl$ 4-Chloro-2-nitro-3:5-dimethylphenyl *n*-hexyl ether, 445.
$C_{14}H_{21}O_4NS$ Mesitylenesulphonylalanine, ethyl ester, 378.

14 V

$C_{14}H_8O_5NBrS$ 4-Bromo-1-aminoanthraquinone-2-sulphonic acid, salts, 47.

C_{15} Group.

$C_{15}H_{11}N$ 5-Phenylquinoline, and its picrate, 444.
2-Pyridylnaphthalenes, and their picrates, 444.
$C_{15}H_{12}O_3$ 3′-Keto-4-acetoxy-1:2-*cyclo*pentenonaphthalene, 498.
$C_{15}H_{12}O_4$ *O*-Benzoyl-*r*-mandelic acid, 228.
2′:3′-Diketo-4′:6-dimethoxy-1:2-*cyclo*pentenonaphthalene, 501.
a-(β-Styrylacryl)tetronic acid, 242.
$C_{15}H_{12}N_2$ Aminophenylquinolines, 317.
6-Pyridylquinaldines, 412.
$C_{15}H_{14}O_3$ *m*-β-Phenylethoxybenzoic acid, 432.
$C_{15}H_{14}O_6$ 2-Carboxy-4:6-dimethoxynaphthalene-1-acetic acid, 501.
$C_{15}H_{14}N_2$ Acetone diphenylenehydrazone, 660.
5-Dimethylaminoacridine, and its hydrochloride, 461.
1-3′-Quinolyl-2:5-dimethylpyrrole, 420.

$C_{15}H_{15}P$ 2-Phenyl-1:2:3:4-tetrahydro*iso*phosphinoline, 550.
$C_{15}H_{15}As$ 2-Phenyl-1:2:3:4-tetrahydro*iso*arsinoline, and its salts, 549.
$C_{15}H_{16}O_3$ 6-Piperonylidene-2-methyl*cyclo*hexanone, 662.
$C_{15}H_{16}O_4$ α-(δ-Phenylvaleryl)tetronic acid, 242.
$C_{15}H_{16}O_5$ Methyl 6-methoxy-5-methyl-1-tetralone-2-glyoxylate, 493.
$C_{15}H_{18}O_2$ 3′-Keto-6-hydroxy-2:5-dimethyl-1:2:3:4-tetrahydro-1:2-*cyclo*pentenonaphthalene-α, 496.
$C_{15}H_{18}O_3$ 6-Methoxy-2:5-dimethyl-3:4-dihydronaphthalene-1-acetic acid, 495.
$C_{15}H_{18}O_4$ Methyl 6-methoxy-2:5-dimethyl-1-tetralone-2-carboxylate, 494.
$C_{15}H_{18}O_6$ Tutin, 50.
$C_{15}H_{19}N_3$ Amino-4-*tert.*-butylpyridylbenzenes, 412.
$C_{15}H_{20}O$ 7:12-Dimethyl-1:2:3:4:12:13-hexahydroxanthen, 476.
$C_{15}H_{20}O_3$ 6-Methoxy-2:5-dimethyltetralin-1-acetic acid, 496.
α-2-Methoxy-4-methylbenzoyl-α-*n*-propylacetone, 434.
$C_{15}H_{20}O_6$ α- and β-Dihydrotutin, 143.
$C_{15}H_{22}O_2$ 3′:6-Diketo-2:5-dimethyldecahydro-1:2-*cyclo*pentenonaphthalene-x-α, 497.
Ethyl β-phenyl-ααβ-trimethyl-*n*-butyrate, 429.
$C_{15}H_{22}O_3$ *n*-Octyloxybenzoic acid, 432.
$C_{15}H_{26}O$ 3′:6-Dihydroxy-2:5-dimethyldecahydro*cyclo*pentenonaphthalene, 497.

15 III

$C_{15}H_{10}O_5N_2$ 4-Phthalo-3-nitro-*p*-anisidide, 411.
$C_{15}H_{10}NBr$ 4-Bromo-4′-cyanostilbene, 3.
$C_{15}H_{11}O_3N_3$ 5-Nitro-6-methoxy-8-α-pyridylquinoline, 411.
$C_{15}H_{12}ON_2$ 5-Acetamidoacridine, 457.
2-Keto-3-benzyl-1:2-dihydroquinoxaline, 397.
Methoxypyridylquinolines, and their picrates, 410.
$C_{15}H_{13}O_3N_3$ 3-Nitro-5:7-dimethylacridine, 347.
$C_{15}H_{12}O_3N_2$ 4-Phthalo-3-amino-*p*-anisidide, 411.
$C_{15}H_{12}O_6N_2$ 5:5′-Dinitro-2:2′-dihydroxy-3:3′-bishydroxymethylbenzophenone, 321.
$C_{15}H_{12}NCl$ 2-*p*-Chlorophenyl-5-methylindole, 64.
3-*p*-Chlorophenyl-1-methylindole, and its picrate, 66.
$C_{15}H_{13}ON_3$ 5-Amino-6-methoxy-8-α-pyridylquinoline, 412.
$C_{15}H_{13}O_2N$ Benzoylphenacylamine, 317.
$C_{15}H_{13}O_3Cl$ Furfurylidene-6-chloro-4-methoxy-3-methylacetophenone, 500.
$C_{15}H_{14}O_2N_2$ 4-Pyridylacetoacetanilide, 413.
$C_{15}H_{14}O_3N_2$ 4-Nitro-2-acetyl-4′-methyldiphenylamine, 347.
$C_{15}H_{15}OCl$ 4-Chloro-3:5-dimethylphenyl benzyl ether, 445.
$C_{15}H_{15}O_3N$ 4-Nitro-*o*-tolyl *p*-methylbenzyl ether, 432.
$C_{15}H_{15}O_4Cl$ 2-(4′-Chloro-6′-methoxy-*m*-tolyl)furan-5-β-propionic acid, 500.
$C_{15}H_{15}O_6Br$ Bromohydropicrotoxinin, 51, 143.
$C_{15}H_{15}N_3Cl$ 3-Amino-5-methylacridine methochloride, 346.
$C_{15}H_{15}Cl_2As$ 2-Phenyl-1:2:3:4-tetrahydro*iso*arsinoline dichloride, 549.
$C_{15}H_{15}SAs$ 2-Phenyl-1:2:3:4-tetrahydro*iso*arsinoline sulphide, 549.
$C_{15}H_{16}O_3N_2$ Nitro-4-*tert.*-butylpyridylbenzenes, and their picrates, 412.
$C_{15}H_{16}N_3Cl$ 3:7-Diamino-5-methylacridine methochloride, 346.
$C_{15}H_{17}O_2N_5$ 4-Methoxy-3-methylhydrazobenzene-*N*-diazocarbonamide, 223.
$C_{15}H_{17}O_6Br$ Bromohydrotutin, 51, 143.
$C_{15}H_{21}ON_3$ 8-γ-Ethylaminopropylamino-6-methoxyquinoline, and its salts, 562.
1-Keto-7-*tert.*-butyl-1:2-3:4-tetrahydronaphthalene semicarbazone, 145.
$C_{15}H_{21}O_2N_3$ 8-β-Hydroxyethyl-γ-aminopropylamino-6-methoxyquinoline, and its salts, 564.
$C_{15}H_{21}O_3N_3$ β-(*p*-*tert.*-Butylbenzoyl)propionic acid semicarbazone, 145.
$C_{15}H_{22}ON_4$ 8-β′-Aminoethyl-γ-aminopropylamino-6-methoxyquinoline, and its salts, 563.

15 IV

$C_{15}H_{11}ON_2Cl$ Nitroso-2-*p*-chlorophenyl-5-methylindole, 64.
$C_{15}H_{11}O_4NBr_2$ 2:6-Dibromo-4-ethylphenyl *p*-nitrobenzoate, 527.
$C_{15}H_{12}O_4NBr$ Bromo-4-ethylphenyl *p*-nitrobenzoates, 526.
$C_{15}H_{12}O_5N_2S$ 1-Amino-4-methylaminoanthraquinone-2-sulphonic acid, sodium salt, 47.
$C_{15}H_{14}ONCl$ *p*-Chlorophenacyl-*N*-methylaniline, 65.
p-Chlorophenacyl-*p*-toluidine, 63.
$C_{15}H_{14}O_3NCl$ 4-Chloro-2-nitro-3:5-dimethylphenyl benzyl ether, 445.
$C_{15}H_{14}O_5N_2S$ 4-Nitrobenzenesulphonylbenzimino-ether, 103.
$C_{15}H_{15}O_3N_2S$ 4-Acetamidobenzenesulphonylbenzamidine, 103.
$C_{15}H_{16}O_3N_2S$ Aceto-*m*-toluidide-6-sulphonanilide, 78.
4-Aminobenzenesulphonylbenzimino-ether, 103.
$C_{15}H_{16}O_7NNa$ Sodioethyl *p*-nitrophenylacetylmalonate, 69.
$C_{15}H_{19}N_2IS_2$ [2-(3-Methyldihydro-1:3-thiazine)][2-(3-ethylbenzthiazole)]methincyanine iodide, 248.
$C_{15}H_{20}O_5N_4S_2$ αα′-Di-(*p*-aminobenzenesulphonamido)*iso*propyl alcohol, 608.
$C_{15}H_{21}O_4NS$ *N*-Mesitylenesulphonyl-*N*-β-methylallylglycine, 377.
$C_{15}H_{25}N_2IS_2$ Bis-2-(3-ethyldihydro-1:3-thiazine)trimethincyanine iodide, 249.

15 V

$C_{15}H_{13}O_3NClBr$ 4-Chloro-2-nitro-3:5-dimethylphenyl *p*-bromobenzyl ether, 445.
$C_{15}H_{16}O_3NClS$ *p*-Toluenesulphonylchloro-*N*-ethylaniline, 65.
$C_{15}H_{18}N_2ClIS_2$ [2-(3-Methyldihydro-1:3-thiazine)][2-(6-chloro-3-ethylbenzthiazole)]methincyanine iodide, 248

$C_{15}H_{19}ON_2IS$ 2-β-Acetanilidovinyldihydro-1:3-thiazine methiodide, 247.
$C_{15}H_{19}N_2ISSe$ [2-(3-Methyldihydro-1:3-thiazine)][2-(3-ethylbenzselenazole)]methincyanine iodide, 248.
$C_{15}H_{22}O_4NClS$ Ethyl *N*-*p*-toluenesulphonyl-*N*-β-chloro*iso*butylaminoacetate, 377.

C_{16} Group.

$C_{16}H_{18}$ βγ-Diphenyl-*n*-butane, 100.
$C_{16}H_{34}$ 2:6:11-Trimethyl-*n*-tridecane, 267.

16 II

$C_{16}H_8N_2$ 4:4′-Dicyanotolane, 3.
$C_{16}H_{10}N_2$ Dicyanostilbenes, 3.
$C_{16}H_{13}N$ 2:4-Diphenylpyrrole, 594.
$C_{16}H_{13}N_3$ 2-Cyano-4-amidinostilbene, 3.
$C_{16}H_{14}O_3$ *p*-Benzoyloxypropiophenone, 612.
4-Methoxy-1:2-*cyclo*pentadienonaphtbalene-3′-acetic acid, 499.
$C_{16}H_{14}O_4$ 3′-Keto-4-acetoxy-5-methoxy-1:2-*cyclo*pentenonaphthalene, 499.
$C_{16}H_{14}N_2$ 5-Amino-2:4-diphenylpyrrole, 595.
2′:6′-Dimethylpyridylquinolines, 415.
Lutidylquinolines, and their picrates, 415.
$C_{16}H_{14}N_4$ 4:4′-Diamidinotolane, hydrochloride of, 3.
$C_{16}H_{14}Br_2$ 4:4′-Dibromo-αβ-dimethylstilbenes, 100.
$C_{16}H_{14}Br_4$ 4:4′-β:γ-Tetrabromo-βγ-diphenyl-*n*-butane, 100.
$C_{16}H_{15}N$ 2-Phenyl-5:7-dimethylindole, and its picrate, 64.
2-Phenyl-1-ethylindole, 67.
3-Phenyl-1-ethylindole, 66.
$C_{16}H_{15}Br_3$ 4:4′:β-Tribromo-βγ-diphenyl-*n*-butane, 101.
$C_{16}H_{16}O_3$ 4-Methoxy-1:2-*cyclo*pentenonaphthalene-3′-acetic acid, 499.
m-*p*-Phenyl-*n*-propoxybenzoic acid, 432.
$C_{16}H_{16}O_4$ 1-Carboxymethylene-6-methoxy-2:5-dimethyltetralin-2-carboxylic anhydride, 494.
$C_{16}H_{16}N_4$ *cis*-4:4′-Diamidinostilbene, 4.
$C_{16}H_{16}Br_2$ 4:4′-Dibromo-βγ-diphenyl-*n*-butanes, 100.
$C_{16}H_{18}O_3$ 4-Methoxy-7:8-dihydro-1:2-*cyclo*pentenonaphthalene-3′-acetic acid, 500.
6-Piperonylidene-2:2-dimethyl*cyclo*hexanone, 662.
$C_{16}H_{18}O_4$ 2-Carboxy-6-methoxy-2:5-dimethyltetralin-1-acetic anhydrides, 495.
$C_{16}H_{20}O_5$ 2-Carboxy-6-methoxy-2:5-dimethyltetralin-1-acetic acids, 494.
Methyl α-2-carboxy-6-hydroxy-2:5-dimethyltetralin-1-acetate, 496.
$C_{16}H_{22}O_3$ α-2-Methoxy-4-methylbenzoyl-α-*n*-butylacetone, 435.
$C_{16}H_{24}O_3$ *n*-Nonyloxybenzoic acid, 432.

16 III

$C_{16}H_9N_2Br$ α-Bromo-4:4′-dicyanostilbene, 3.
$C_{16}H_{10}N_2Br_2$ αβ-Dibromo-4:4′-dicyano-αβ-diphenylethane, 3.
$C_{16}H_{11}O_2N_3$ 4-Nitro-1:3-dipyridylbenzenes, 406.
$C_{16}H_{11}O_4N_3$ 1-Nitro-6:17-diketo-6:8:15:17-tetrahydro-7:16-diazanaphthacene, 659.
$C_{16}H_{12}ON_2$ 5-Nitroso-2:4-diphenylpyrrole, and its salts, 594.
$C_{16}H_{12}O_2N_2$ 6:17-Diketo-6:8:15:17-tetrahydro-7:16-diazanaphthacene, 658.
$C_{16}H_{12}O_7N_2$ *p*-Nitrophenylacetic anhydride, 69.
$C_{16}H_{13}O_2N_3$ 1-Amino-6:17-diketo-6:8:15:17-tetrahydro-7:16-diazanaphthacene, 659.
$C_{16}H_{13}O_3N$ 5-Benzyloxyindole-2-carboxylic acid, 49.
$C_{16}H_{13}O_3N_3$ 3-Nitro-7-acetamido-5-methylacridine, 346.
$C_{16}H_{14}ON_2$ 3-Acetamido-5-methylacridine, 346.
3-Nitroso-2-phenyl-1-ethylindole, 67.
$C_{16}H_{14}O_2N_2$ Methyl pyruvate diphenylenehydrazone, 660.
$C_{16}H_{14}O_3N_2$ 2-*o*-Carboxybenzoyl-1:2:3:4-tetrahydrophthalazine, and its sodium salt, 658.
$C_{16}H_{14}O_5N_2$ γ-Nitro-β-(*m*-nitrophenyl)butyrophenone, 592.
$C_{16}H_{14}NCl$ 2-*p*-Chlorophenyl-1-ethylindole, 67.
3-*p*-Chlorophenyl-1-ethylindole, 66.
$C_{16}H_{15}O_4N$ γ-Nitro-β-(*m*-hydroxyphenyl)butyrophenone, 593.
$C_{16}H_{15}O_4N_3$ Nitroacetamido-2-acetyldiphenylamines, 346.
$C_{16}H_{16}ON_2$ 1-6′-Methoxy-8′-quinolyl-2:5-dimethylpyrrole, 420.
$C_{16}H_{16}O_3N_2$ γ-Nitro-β-phenylbutyrophenone oxime, 595.
$C_{16}H_{17}ON$ Phenacyl-*N*-ethylaniline, 65.
Phenyl-2-aminophenylallylcarbinol, 451.
$C_{16}H_{17}O_4Cl$ Methyl 2-(4′-chloro-6′-methoxy-*m*-tolyl)furan-5-β-propionate, 500.
$C_{16}H_{17}N_2Cl$ 3-Amino-5:7-dimethylacridine methochloride, 347.
$C_{16}H_{18}IP$ 2-Phenyl-1:2:3:4-tetrahydro*iso*phosphinoline methiodide, 550.
$C_{16}H_{18}IAs$ 2-Phenyl-1:2:3:4-tetrahydro*iso*arsinoline methiodide, 549.
$C_{16}H_{19}O_2N$ 4:4′-Diethoxydiphenylamine, 65.
$C_{16}H_{23}ON_3$ 8-γ-Propylaminopropylamino-6-methoxyquinolines, and their salts, 562.
$C_{16}H_{23}ON_4$ 8-Bis-γ-aminopropylamino-6-methoxyquinoline, trihydrochloride of, 556.
$C_{16}H_{23}O_2N_3$ 8-β-Hydroxyethylmethyl-γ-aminopropylamino-6-methoxyquinoline, and its salts, 565.
$C_{16}H_{23}O_4N$ Ethyl 2-β-carbethoxyethyl-Δ^1-*cyclo*hexene-1-cyanoacetate, 502.
$C_{16}H_{24}ON_4$ 8-γ-Aminopropyl-γ-aminopropylamino-6-methoxyquinoline, trihydrochloride of, 556.
8-γ′-Aminopropyl-γ-aminopropylamino-6-methoxyquinoline, and its salts, 564.
R. 63, and its salts, 558.

16 IV

$C_{16}H_7O_3N_2Cl_4$ 2:3:5:6-Tetrachloro-4-nitrobenzeneazo-β-naphthol, 234.
$C_{16}H_9ON_2Cl_4$ 2:3:5:6-Tetrachlorobenzeneazo-β-naphthol, 234.
$C_{16}H_8O_2N_2Cl_4$ 2:3:5:6-Tetrachloro-4-hydroxybenzeneazo-β-naphthol, 235.

$C_{16}H_9ON_2Cl_4$ 2:3:5:6-Tetrachloro-4-aminobenzeneazo-β-naphthol, 234.
$C_{16}H_9O_2N_2Cl_3$ 2:3:5-Trichloro-6-hydroxybenzeneazo-β-naphthol, 237.
$C_{16}H_{11}ON_2Cl$ 4-Chloro-1-benzeneazo-2-naphthol, 469.
$C_{16}H_{11}ON_2Br$ 4-Bromo-1-benzeneazo-2-naphthol, 469.
$C_{16}H_{11}ON_2I$ 4-Iodo-1-benzeneazo-2-naphthol, 469.
$C_{16}H_{13}ON_2Cl$ 3-Nitroso-2-*p*-chlorophenyl-1-ethylindole, 68.
$C_{16}H_{14}ON_2Cl$ 1-Phenyl-3-methylquinoxaline-2-aldoxime chloride, 400.
$C_{16}H_{14}O_2NCl$ Acetyl-*p*-chlorophenacylaniline, 63.
$C_{16}H_{15}ONCl_2$ *p*-Chloro-(*p*′-chlorophenacyl)-*N*-ethylaniline, 65.
$C_{16}H_{16}ONCl$ *p*-Chlorophenacyl-2:4-dimethylaniline, 63.
p-Chlorophenacyl-*N*-ethylaniline, and its salts, 65.
$C_{16}H_{19}O_2NS$ *p*-Toluenesulphonyl-*N*-ethyl-*p*-toluidine, 65.
$C_{16}H_{19}N_2IS$ [2-(3-Methyldihydro-1:3-thiazine)][2-(1-methylquinoline)]methincyanine iodide, 248.
[2-(3-Methyldihydro-1:3-thiazine)][4-(1-methylquinoline)]methincyanine iodide, 248.
$C_{16}H_{21}N_2IS_2$ [2-(3-Ethyldihydro-1:3-thiazine)][2-(3-ethylbenzthiazole)]methincyanine iodide, 247.
$C_{16}H_{22}ON_2Cl$ 5-Chloro-8-β-diethylaminoethylamino-6-methoxyquinoline, 556.

16 V

$C_{16}H_{20}N_2ClIS_2$ [2-(3-Ethyldihydro-1:3-thiazine)][2-(5-chloro-3-ethylbenzthiazole)]methincyanine iodide, 248.
$C_{16}H_{21}ON_2IS$ [2-(3-Ethyldihydro-1:3-thiazine)][2-3-ethylbenzoxazole)]methincyanine iodide, 247.
$C_{16}H_{21}N_2ISSe$ [2-(3-Ethyldihydro-1:3-thiazine)][2-(3-ethylbenzselenazole)]methincyanine iodide, 248.

C_{17} Group.

$C_{17}H_{12}N_4$ 4-Amino-5-cyano-2:6-diphenylpyrimidine, 390.
$C_{17}H_{14}O$ Dibenzylideneacetone, compounds of, with *s*-trinitrobenzene, 463.
$C_{17}H_{14}N_2$ 4-Pyridyldiphenylamine, and its picrate, 418.
$C_{17}H_{17}N$ 2-Phenyl-5-methyl-1-ethylindole, 67.
3-Phenyl-5-methyl-1-ethylindole, and its picrate, 66.
$C_{17}H_{18}N_2$ 5-Butylaminoacridine, and its hydrochloride, 654.
$C_{17}H_{20}O_3$ 6-Piperonylidene-2-methyl-2-ethyl*cyclo*hexanone, 662.
$C_{17}H_{20}O_7$ Acetyltutin, 51.
$C_{17}H_{22}O_4$ 4:6-Dimethoxy-5:6:7:8-tetrahydro-1:2-*cyclo*pentenonaphthalene-3′-acetic acid, 499.
$C_{17}H_{22}O_5$ α-2-Carbomethoxy-6-hydroxy-2:5-dimethyltetralin-1-acetic acid, 496.
$C_{17}H_{24}O$ 2:2-Dimethyl-3-(γ-methyl-Δ^{γ}-pentenyl)chroman, 476.
$C_{17}H_{24}O_3$ α-2-Methoxy-4-methylbenzoyl-α-*n*-amylacetone, 435.
$C_{17}H_{28}O_4$ Methyl-2-carbomethoxy-6-hydroxy-2:5-dimethyldecalin-2-acetate, 496.
$C_{17}H_{34}O_2$ Methyldi-*n*-heptylacetic acid, 618.

17 III

$C_{17}H_{12}O_4N_2$ 2-Keto-1-phenyldihydroquinoxaline-3-pyruvic acid, 400.
$C_{17}H_{13}ON$ 2:4-Diphenylpyrrole-5-aldehyde, 597.
$C_{17}H_{13}O_2Br$ 3-Bromo-4-keto-1-phenyl-1:2:3:4-tetrahydro-2-naphthoic acid, 13.
$C_{17}H_{14}ON_2$ Acetamidophenylquinolines, 317.
2:4-Diphenylpyrrole-5-aldoxime, 597.
$C_{17}H_{14}O_3N_2$ 5-Nitroso-2-phenyl-4-anisylpyrrole, and its salts, 595.
6-Nitro-4-*p*-toluenеazo-1-naphthylamine, 393.
$C_{17}H_{15}ON$ 2:4-Diphenylpyrrole-5-carbinol, 597.
Phenylanisylpyrroles, 594.
$C_{17}H_{15}O_2N$ Hex-3-en-5-yn-2-ol β-naphthylurethane, 263.
$C_{17}H_{15}O_2N$ Methyl 5-benzyloxyindole-2-carboxylate, 49.
$C_{17}H_{16}ON_2$ 3-Acetamido-5:7-dimethylacridine, 347.
3-Nitroso-2-phenyl-5-methyl-1-ethylindole, 67.
$C_{17}H_{16}O_{11}N_2$ *d*(−)-Arabinose 2:4-dinitrophenylosazone, 628.
$C_{17}H_{16}NCl$ 2-*p*-Chlorophenyl-5-methyl-1-ethylindole, 68.
3-*p*-Chlorophenyl-5-methyl-1-ethylindole, and its picrate, 66.
2-*p*-Chlorophenyl-1-*n*-propylindole, 68.
$C_{17}H_{17}ON$ Phenylanisylpyrrolines, and their picrates, 594.
$C_{17}H_{17}O_4N$ γ-Nitro-β-*p*-anisylbutyrophenone, 593.
γ-Nitro-β-phenyl-*p*-methoxybutyrophenone, 593.
$C_{17}H_{18}O_6N_2$ 7-Methylnon-7-en-5-yn-4-ol 3:5-dinitrobenzoate, 267.
$C_{17}H_{19}ON$ β-(*N*-Methylanilino)anethole, 611.
Phenyl-*N*-ethyl-*p*-toluidine, 65.
$C_{17}H_{19}O_3N_3$ β-Hydroxypropylphenylcarbamide phenylurethane, 377.
$C_{17}H_{20}O_5N_4$ 2:4-Dinitro-*N*-γ-phenoxypropyl-β-aminoethylaniline, hydrochloride of, 556.
$C_{17}H_{22}O_4N_4$ *cis*-2-Keto-9-methyldecalin 2:4-dinitrophenylhydrazone, 502.
$C_{17}H_{24}O_6N_2$ 7-Methylnonanol 3:5-dinitrobenzoates, 267.
Methyloctylcarbinyl 3:5-dinitrobenzoate, 265.
Propylhexylcarbinyl 3:5-dinitrobenzoate, 265.
$C_{17}H_{25}ON_3$ 8-γ-Butylaminopropylamino-6-methoxyquinolines, and their salts, 563.
8-γ-Diethylaminopropylamino-6-methoxyquinoline, and its salts, 564.
8-γ-Methylpropylaminopropylamino-6-methoxyquinoline, and its salts, 564.
$C_{17}H_{26}ON_4$ 8-δ′-Amino-*n*-butyl-γ-aminopropylamino-6-methoxyquinoline, and its salts, 564.
$C_{17}H_{27}ON_3$ 7-Methylnonanone phenylsemicarbazones, 267.
$C_{17}H_{35}ON$ Methyldi-*n*-heptylacetamide, 618.

17 IV

$C_{17}H_8O_4N_2Cl_4$ 2:3:5:6-Tetrachloro-4-nitro-2′-hydroxy-3′-naphthanilide, 234.
$C_{17}H_9O_2NCl_4$ 2:3:5:6-Tetrachloro-2′-hydroxy-3′-naphthanilide, 234.

$C_{17}H_{10}O_2N_2Cl_4$ 2:3:4:5-Tetrachloro-6-methoxybenzeneazo-β-naphthol, 237.
2:3:5:6-Tetrachloro-4-methoxybenzeneazo-β-naphthol, 234.
6-*p*-Toueneazo-2:4-bisdichloromethylene-1:3-benzdioxin, 321.
$C_{17}H_{11}O_3N_2Cl_3$ 2:3:5-Trichloro-6-methoxybenzeneazo-β-naphthol, 236.
$C_{17}H_{13}O_8N_4S$ 2:4:6-Trinitro-*p*-toluenesulphon-1-naphthalide, 393.
$C_{17}H_{14}O_4N_2S$ 6-Nitro-*p*-toluenesulphon-1-naphthalide, 391.
$C_{17}H_{15}ON_2Cl$ 3-Nitroso-2-*p*-chlorophenyl-1-*n*-propylindole, 68.
$C_{17}H_{15}O_2N_3S$ *p*-Toluenesulphonylquinoline carboxyhydrazides, 415.
$C_{17}H_{17}O_5N_3S$ *N*-Benzenesulphonyl-*N*-acetonylglycine 2:4-dinitrophenylhydrazone, 377.
$C_{17}H_{18}ONCl$ *p*-Chlorophenacyl-*N*-ethyl-*p*-toluidine, and its salts, 65.
$C_{17}H_{18}O_4N_2S$ 4-Acetamidobenzenesulphonylbenzimino-ether, 103.
$C_{17}H_{19}O_3N_2As$ 2-Methyl-1:2:3:4-tetrahydro*iso*arsinoline methosulphate, 549.
$C_{17}H_{21}O_3Cl_2P$ 6″-*O*-Dichlorophosphoryl-2:2:5′:4″-tetramethyl-3′:4′:5′:6′-tetrahydrodibenzopyran, 286.
$C_{17}H_{21}N_2IS$ [2-(3-Methyldihydro-1:3-thiazine)][2-(1-ethylquinoline)]methincyanine iodide, 248.
[2-(3-Methyldihydro-1:3-thiazine)][4-(1-ethylquinoline)]methincyanine iodide, 248.
[2-(3-Methyldihydro-1:3-thiazine)][2-(3-ethylbenzthiazole)]trimethincyanine iodide, 249.

17 V

$C_{17}H_{10}O_3N_2Cl_3Br$ 2:3:5-Trichloro-4-bromo-6-methoxybenzeneazo-β-naphthol, 237.
$C_{17}H_{13}O_4N_2BrS$ 1-Bromo-6-nitro-*p*-toluenesulphon-2-naphthalide, 392.
$C_{17}H_{21}ON_2IS$ [2-(3-Methyldihydro-1:3-thiazine)][2-(3-ethylbenzoxazole)]trimethincyanine iodide, 249.
$C_{17}H_{22}ON_3IS_2$ [2-(3-Methyldihydro-1:3-thiazine)][2-(6-acetamido-3-ethylbenzthiazole)]methincyanine iodide, 248.

C_{18} Group.

$C_{18}H_{12}N_2$ Pyridylacridines, 417.
$C_{18}H_{14}N_2$ Amino-9-phenylcarbazoles, 661.
4:4′-Dicyano-αβ-dimethylstilbene, 101.
$C_{18}H_{15}N$ 1:9-(2′:3′:4′:5′-Tetrahydrophenylene)carbazole, and its picrate, 660.
$C_{18}H_{16}O_2$ 3-Benzyl-2:7-dimethylchromone, 435.
Benzylidene-*p*-anisylideneacetone, compounds of, with *s*-trinitrobenzene, 463.
$C_{18}H_{16}N_2$ 4:4′-Dicyano-βγ-diphenyl-*n*-butanes, 101.
$C_{18}H_{18}O_2$ Dienœstrol, 609.
$C_{18}H_{18}O_5$ Phenylphenacyl *dl-erythro*-αβ-dihydroxybutyrate, 467.
$C_{18}H_{18}N_2$ 8-Pyridyl-5-*tert.*-butylquinoline, 412.
$C_{18}H_{20}O_3$ γγ-Bis-4-hydroxyphenylhexan-δ-one, 612.
$C_{18}H_{20}N_4$ *trans*-4:4′-Diamidino-αβ-dimethylstilbene, and its dihydrochloride, 101.
$C_{18}H_{22}O$ *cis*-Benzylidene-2-keto-9-methyldecalin, 502.
$C_{18}H_{22}O_4$ γδ-Bis-4-hydroxyphenylhexane-γδ-diol, 612.
Methyl 3′-keto-6-methoxy-2:5-dimethyl-1:2:3:4-tetrahydro-1:2-*cyclo*pentenonaphthalene-2′-carboxylate 496.
$C_{18}H_{22}O_5$ Methyl 1-carbomethoxymethylene-6-methoxy-2:5-dimethyltetralin-2-carboxylate, 494.
$C_{18}H_{22}N_4$ 4:4′-Diamidino-βγ-diphenylbutane, and its dihydrochloride, 101.
$C_{18}H_{24}O_5$ Methyl 2-carbomethoxy-6-methoxy-2:5-dimethyltetralin-1-acetates, 494.
$C_{18}H_{24}O_6$ Methyl 1-hydroxy-6-methoxy-2-carbomethoxy-2:5-dimethyltetralin-1-acetate, 494.
$C_{18}H_{34}O_2$ Elaidic acid, oxidation of, by hydrogen peroxide in acetic acid, 37.
Oleic acid, oxidation of, by hydrogen peroxide in acetic acid, 37.

18 III

$C_{18}H_{10}O_8N_2$ 1:3-Dihydroxy-2-2′:4′-dinitrophenylnaphthalene, 69.
$C_{18}H_{12}ON_2$ Pyridylacridones, 418.
$C_{18}H_{12}O_2N_2$ Nitro-9-phenylcarbazoles, 661.
$C_{18}H_{14}ON_2$ *o*-Benzamidophenylpyridines, and its picrates, 317.
$C_{18}H_{14}O_2N_2$ Pyridyldiphenylamine-2′-carboxylic acids, 418.
$C_{18}H_{14}O_3N_4$ 3-(2-Keto-1-methyldihydroquinoxalinyl)-3-(2-ketodihydroquinoxalinyl)methane, 400.
2-(3-Methyl-4-quinazolonyl)-3-(2-ketodihydroquinoxalyl)methane, 400.
$C_{18}H_{14}O_8N_2$ 3-Hydroxy-1-ethoxy-2-2′:4′-dinitrophenylnaphthalene, 69.
$C_{18}H_{15}O_2N$ 2-Phenyl-4-*p*-anisylpyrrole-5-aldehyde, 597.
$C_{18}H_{16}ON_2$ 5-Acetamido-2:4-diphenylpyrrole, 595.
$C_{18}H_{16}O_2N_2$ 4-Methoxy-2-methylbenzeneazo-β-naphthol, 223.
2-Phenyl-4-*p*-anisylpyrrole-5-aldoxime, 597.
$C_{18}H_{16}O_6N_2$ Ethyl α-2:4-dinitrophenyl-γ-phenylacetoacetate, 69.
$C_{18}H_{17}O_2N$ 3-Methylhex-3-en-5-yn-2-ol α-naphthylurethane, 263.
$C_{18}H_{17}O_2N_3$ 3:7-Diacetamido-5-methylacridine, 346.
$C_{18}H_{18}O_2N_2$ Ethyl acetoacetate diphenylenehydrazone, 660.
$C_{18}H_{18}O_5N_4$ 6-Methoxy-5-methyl-1-tetralone 2:4-dinitrophenylhydrazone, 493.
$C_{18}H_{18}O_6N_4$ β-Benzoyl-αα-dimethylpropionic acid 2:4-dinitrophenylhydrazone, 428.
$C_{18}H_{18}NCl$ 2-*p*-Chlorophenyl-1-*iso*butylindole, 68.
3-*p*-Chlorophenyl-1-*iso*butylindole, 66.
$C_{18}H_{19}ON$ Phenyl-2-acetamidophenylallylcarbinol, 451.
$C_{18}H_{19}O_3N_2$ β-Benzoyl-α-(*p*-acetamidophenyl)propionitrile, 593.
$C_{18}H_{19}O_3N$ γ-Nitro-β-phenylhexophenone, 595.
$C_{18}H_{20}O_3N_2$ γ-Nitro-β-(*p*-dimethylaminophenyl)butyrophenone, 593.
$C_{18}H_{21}O_4N_3$ 8-γ-Furfurylaminopropylamino-6-methoxyquinoline, and its salts, 563.
$C_{18}H_{21}O_3N_3$ γ-Nitro-β-(*p*-dimethylaminophenyl)butyrophenone oxime, 593.
$C_{18}H_{23}ON_4$ 8-ε-Amino-*n*-amyl-γ-aminopropylamino-6-methoxyquinoline, and its salts, 564.

18 IV

$C_{18}H_{11}O_3NCl_4$ 2:3:5:6-Tetrachloro-4-methoxy-2′-hydroxy-3′-naphthanilide, 235.
$C_{18}H_{17}O_6N_2S_2$ Di-4-nitrobenzenesulphonanilide, 103.
$C_{18}H_{15}O_2N_4Cl$ 3-(2-Keto-1-methyldihydroquinoxalyl)-3-(2-ketodihydroquinoxalyl)methane hydrochloride, 401.
$C_{18}H_{17}ON_2Cl$ 3-Nitroso-2-*p*-chlorophenyl-1-*iso*butylindole, 68.
$C_{18}H_{18}ONCl$ *p*-Chlorophenacyl-*N*-*iso*butylaniline, 65.
$C_{18}H_{19}N_2IS_2$ [2-(3-Methyldihydro-1:3-thiazine)][2-(3-methyl-4:5-benzbenzthiazole)]methincyanine iodide, 247.
$C_{18}H_{21}N_2IS$ [2-(3-Ethyldihydro-1:3-thiazine)][2-(1-ethylquinoline)]methincyanine iodide, 248.
[2-(3-Ethyldihydro-1:3-thiazine)][4-(1-ethylquinoline)]methincyanine iodide, 248.
$C_{18}H_{24}O_3NBr$ Phthalobromodecylimide, 558.
$C_{18}H_{24}O_8N_4S$ 6-Acetamido-4-triacetyl-*d*-xylosidamino-2-methylthiopyrimidine, 573.

C_{19} Group.

$C_{19}H_{13}N_3$ *p*-Dipyridylbenzene, 406.
6:8-Dipyridylquinolines, 406.
6-α-Pyridyl-8-α(β and γ)-pyridylquinoline, 405.
$C_{19}H_{14}N_2$ Anilinoacridines, 461.
$C_{19}H_{16}O_3$ 4′-Methoxy-2-styryl-7-methylchroman, 434.
$C_{19}H_{16}O_5$ Dianisylideneacetone, compounds of, with *s*-trinitrobenzene, 463.
$C_{19}H_{18}O_4$ α-Benzoyl-α-2-methoxy-4-methylbenzoylacetone, 435.
$C_{19}H_{20}O_2$ Dienœstrol methyl ether, 612.
$C_{19}H_{20}O_3$ α-2-Methoxy-4-methylbenzoyl-α-benzylacetone, 435.
$C_{19}H_{20}N_2$ 5-*cyclo*Hexylaminoacridine, and its hydrochloride, 654.
$C_{19}H_{26}O_5$ Methyl α-2-carbomethoxy-6-methoxy-2:5-dimethyltetralin-1-β-propionate, 496.
$C_{19}H_{28}O_3$ 4-Acetoxy-Δ^5-androsten-3(β)-ol-17-one, 138.
cis-Δ^5-Androstene-3:4-diol-17-one, 138.
$C_{19}H_{30}O_3$ *p*-Dodecyloxybenzoic acid, 432.
$C_{19}H_{36}O_4$ Methyl hydroperoxido-oleate, 120.

19 III

$C_{19}H_{16}O_2N_4$ Bis-3-(2-keto-1-methyl-1:2-dihydroquinoxalinyl)methane, 400.
2-(3-Methyl-4-quinazolonyl)-3-(2-keto-1-methyldihydroquinoxalyl)methane, 400.
$C_{19}H_{16}O_3N_4$ Acetyl-6-nitro-4-*p*-tolueneazo-1-naphthylamine, 393.
$C_{19}H_{16}O_4N_2$ Ethyl 2-keto-1-phenyl-1:2-dihydroquinoxaline-3-pyruvate, 400.
$C_{19}H_{19}ON_3$ [2-(3-Keto-1:4-dimethyldihydroquinoxaline)][(4-dimethylaminophenyl)]dimethylcyanine, 396.
$C_{19}H_{20}O_5N_4$ 6-Methoxy-2:5-dimethyl-1-tetralone 2:4-dinitrophenylhydrazone, 494.
$C_{19}H_{20}O_6N_2$ Ethyl 4-*p*-nitrophenyl-2:6-dimethylpyridine-3:5-dicarboxylate, 416.
$C_{19}H_{20}O_4N_4$ Methyl β-benzoyl-αα-dimethylpropionate 2:4-dinitrophenylhydrazone, 428.
$C_{19}H_{22}O_4N_2$ Ethyl 4-*p*-aminophenyl-2:6-dimethylpyridine-3:5-dicarboxylate, 416.
$C_{19}H_{25}O_2N$ Delatine, and its hydrochloride, 140.
$C_{19}H_{27}ON_3$ 8-γ-*cyclo*Hexylaminopropylamino-6-methoxyquinoline, and its hydrogen oxalate, 563.

19 IV

$C_{19}H_{14}O_3N_3Cl_3$ 2:3:6-Trichloro-5-methoxy-4-acetamidobenzeneazo-β-naphthol, 237.
$C_{19}H_{14}O_5N_2S$ *N*-*p*-Nitrobenzenesulphonyl-*o*-phenylbenzimino-ether, 103.
$C_{19}H_{20}ON_2I$ [2-(3-Hydroxy-1-methylquinoxaline)][(4-dimethylaminophenyl)]dimethincyanine iodide, 396.
$C_{19}H_{24}O_7N_4S_2$ αα′-Di-(*p*-acetamidobenzenesulphonamido)*iso*propyl alcohol, 608.

19 V

$C_{19}H_{19}ON_2IS$ [2-(1-Methylbenzthiazole)][2-(3-keto-1:4-dimethyl-3:4-dihydroquinoxaline)]methincyanine iodide, 399.
$C_{19}H_{21}ON_2IS$ [2-(3-Methyldihydro-1:3-thiazine)][2-(3-6:7-benzbenzoxazole)]methincyanine iodide, 247.

C_{20} Group.

$C_{20}H_{12}$ Benzpyrene, determination of, 312.

20 II

$C_{20}H_{14}N_2$ Benzylideneaminoacridines, 460.
3:4-Diphenylcinnoline, 450.
$C_{20}H_{17}N$ α-(2-Aminophenyl)-αβ-diphenylethylenes, 450.
$C_{20}H_{18}O_3$ 4′-Methoxy-2-styryl-3:7-dimethylchromone, 434.
$C_{20}H_{22}O_2$ Dienœstrol dimethyl ether, 612.
$C_{20}H_{24}N_2$ 5-Heptylaminoacridine, hydrochloride of, 654.
$C_{20}H_{26}O_2$ αδ-Di-*p*-anisyl-βγ-dimethylbutane, 611.
$C_{20}H_{27}N_3$ 8-ω-Cyanodecylaminoquinoline, 560.
$C_{20}H_{28}O_3$ 6″-Hydroxy-4″-*n*-butoxy-2:2:5′-trimethyl-3′:4′:5′:6′-tetrahydrodibenzopyran, 286.
$C_{20}H_{30}N_4$ 8-ω-Guanyldecylaminoquinoline, and its hydrochloride, 560.
$C_{20}H_{34}O_2$ Ethyl linolenate, 546.

20 III

$C_{20}H_9N_3Cl_3$ 1:2:4-Trichloro-5:6:9′:10′-phenanthraphenazine, 576.
$C_{20}H_{10}N_3Cl_3$ 1:2:4-Trichloro-3-amino-5:6:9′:10′-phenanthraphenazine, 577.
$C_{20}H_{11}N_3Cl_2$ 1:4-Dichloro-2-amino-5:6:9′:10′-phenanthraphenazine, 577.
2:4-Dichloro-1-amino-5:6:9′:10′-phenanthraphenazine, 576.

$C_{20}H_{13}O_5N_3$ 6-Nitronaphthalene-1-azo-β-naphthol, 392.
$C_{20}H_{14}ON_2$ 2-Salicylideneaminoacridine, 460.
$C_{20}H_{16}O_5N_4$ 3′-Keto-4-methoxy-1:2-*cyclo*pentenonaphthalene 2:4-dinitrophenylhydrazone, 499.
$C_{20}H_{16}O_6N_4$ Furfurylidene-3-methoxyacetophenone 2:4-dinitrophenylhydrazone, 499.
$C_{20}H_{16}O_7N_2$ 3-Acetoxy-1-ethoxy-2-2′:4′-dinitrophenylnaphthalene, 69.
$C_{20}H_{17}O_2N_3$ 2-Carbethoxy-3-(3′-methyl-2′-quinoxalyl)indole, 400.
$C_{20}H_{17}O_3N_3$ 2-Carbethoxy-3-(2′-keto-1′-methyldihydro-3′-quinoxalyl)indole, 400.
8-β-Phthalimidoethyl-6-methoxyquinoline, 555.
$C_{20}H_{19}ON$ Phenylbenzyl-2-aminophenylcarbinol, 450.
$C_{20}H_{19}O_2N_3$ 2-*tert.*-Butyl-1:4-naphthaquinone *p*-nitrophenylhydrazone, 145.
$C_{20}H_{20}ON_2$ 2-*tert.*-Butyl-1:4-naphthaquinone phenylhydrazone, 145.
$C_{20}H_{20}O_2N_4$ Ethyl 3-methyl-4-quinazolonyl-2-pyruvate phenylhydrazone, 400.
$C_{20}H_{20}O_4N_2$ Ethyl oxaloacetate diphenylhydrazone, 660.
$C_{20}H_{20}O_5N_4$ Methyl 6-methoxy-5-methyl-1-tetralone-2-carboxylate 2:4-dinitrophenylhydrazone, 494.
$C_{20}H_{22}O_2N_2$ Phthalo-γ-(γ-phenoxypropylamino)propylimide, hydrobromide of, 555.
$C_{20}H_{23}ON_3$ 8-γ-Benzylaminopropylamino-6-methoxyquinoline, and its salts, 563.
$C_{20}H_{21}ON_3$ 8-ω-Aminodecylamino-6-methoxyquinoline, dihydrochloride, 558.
8-γ-*n*-Heptylaminopropylamino-6-methoxyquinoline, and its salts, 563.

20 IV

$C_{20}H_{13}O_4NS$ 1-Anilinoanthraquinone-3-sulphonic acid, salts, 46.
$C_{20}H_{14}O_5N_2S$ 1-Amino-4-anilinoanthraquinone-2-sulphonic acid, salts, 46.
$C_{20}H_{18}O_2N_2I$ [2-(3-Hydroxy-1-methylquinoxaline)][2-(1-methylbenzoxazole)]trimethincyanine iodide, 396.
$C_{20}H_{23}N_2IS_2$ [2-(3-Ethyldihydro-1:3-thiazine)][2-(3-ethyl-4:5-benzbenzthiazole)]methincyanine iodide, 247.
[2-(3-Ethyldihydro-1:3-thiazine)][2-(3-ethyl-6:7-benzbenzthiazole)]methincyanine iodide, 247.

C_{21} Group.

$C_{21}H_{16}N_2$ 5-Aminostyrylacridines, 7.
4-Phenyl-3-benzylcinnoline, 451.
$C_{21}H_{18}O$ Dicinnamylideneacetone, compounds of, with *s*-trinitrobenzene, 463.
$C_{21}H_{18}O_3$ Trimethylbenzoylnaphthoic acids, 240.
$C_{21}H_{19}N$ α-Phenyl-α-(2-aminophenyl)-β-benzylethylene, 451.
$C_{21}H_{20}O$ Trimethylbenzoyl-2-methylnaphthalenes, 240.
$C_{21}H_{20}O_3$ 4′-Methoxy-2-styryl-7-methyl-3-ethylchromone, 434.
$C_{21}H_{24}O_2$ 5-*o*-Hydroxybenzyl-12-methyl-1:2:3:4:12:13-hexahydroxanthen, 476.
$C_{21}H_{30}O_3$ 6″-Hydroxy-4″-*n*-amyloxy-2:2:5′-trimethyl-3′:4′:5′:6′-tetrahydrodibenzopyran, 286.

21 III

$C_{21}H_{13}O_4N_3$ 3-Nitro-5-*p*-nitrostyrylacridine, 347.
$C_{21}H_{14}O_2N_2$ α-(Nitrophenyl)-β-(5-acridyl)ethanols, 6.
5-Nitrostyrylacridines, 6.
2-Phenyl-6-pyridylquinoline-4-carboxylic acids, 412.
$C_{21}H_{15}O_5N_3$ α-(Nitrophenyl)-β-5-(3-nitroacridyl)ethanols, 347.
$C_{21}H_{16}ON_2$ 2-Keto-1-phenyl-3-benzyl-1:2-dihydroquinoxaline, 397.
$C_{21}H_{18}O_9N_4$ 5:5′-Dinitro-2:2′-dihydroxy-3:3′-bishydroxymethylbenzophenone phenylhydrazone, 321.
$C_{21}H_{18}N_2S$ 2-*p*-Dimethylaminostyryl*peri*naphtha-1:3-thiazine, 491.
$C_{21}H_{19}O_4N$ 4′-Nitro-2-styryl-7-methyl-3-*n*-propylchromone, 434.
$C_{21}H_{21}ON$ Phenyl-2-aminophenyl-β-phenylethylcarbinol, 450.
$C_{21}H_{21}O_2N$ 7-Methylnonadienynol α-naphthylurethanes, 267.
$C_{21}H_{22}O_4N_2$ Ethyl 1-quinolyl-2:5-dimethylpyrrole-3:4-dicarboxylates, 420.
$C_{21}H_{23}O_2N$ Decenynol α-naphthylurethanes, 265.
5-Ethyloct-5-en-7-yn-4-ol α-naphthylurethane, 264.
7-Methylnon-7-en-5-yn-4-ol β-naphthylurethane, 267.
$C_{21}H_{29}ON_3$ 8-ω-Cyanodecylamino-6-methoxyquinoline, 560.
$C_{21}H_{30}O_3N_2$ 8-ω-Carboxydecylamino-6-methoxyquinoline, 559.
$C_{21}H_{31}O_4N_3$ 8-ω-Carboxyamidodecylamino-6-methoxyquinoline, 560.
$C_{21}H_{31}O_4P$ Tetrahydrocannabinyl phosphate, 287.
$C_{21}H_{32}ON_4$ 8-ω-Guanyldecylamino-6-methoxyquinoline, and its hydrochloride, 560.
$C_{21}H_{37}O_2N$ Ethyl 1-*n*-decyl*cyclo*hexane-1-cyanoacetate, 502.

21 IV

$C_{21}H_{24}O_4N_4S$ 8-γ-*p*-Acetamidobenzenesulphonamidopropylamino-6-methoxyquinoline, 559.
$C_{21}H_{25}O_5N_3S$ [2-(3-Keto-1:4-dimethyldihydroquinoxaline)][(4-dimethylaminophenyl)]dimethincyanine sulphate, 396.
$C_{21}H_{26}O_6N_6S_2$ αβγ-Tri-(*p*-aminobenzenesulphonamido)propane, 609.
$C_{21}H_{28}O_{10}N_4S$ 6-Acetamido-4-tetra-acetyl-*d*-mannosidamino-2-methylthiopyrimidine, 573.
$C_{21}H_{29}O_3Cl_2P$ *O*-Dichlorophosphoryltetrahydrocannabinol, 287.

C_{22} Group.

$C_{22}H_{14}N_2$ 2-Phenyl-3:4:6:7-dibenzo-1:5-naphthyridine, and its picrate, 318.
$C_{22}H_{18}O_2$ 5:6:7:8-Tetramethyl-1:2-benzanthraquinone, 241.
$C_{22}H_{20}O_3$ 2-(2′:3′:4′:5′-Tetramethylbenzoyl)-1-naphthoic acid, 240.
$C_{22}H_{32}O_3$ 6″-Hydroxy-4″-*n*-hexyloxy-2:2:5′-trimethyl-3′:4′:5′:6′-tetrahydrodibenzopyran, 286.

22 III

$C_{22}H_{15}O_3N_3$ 3-*p*-Nitrobenzamido-2-phenylquinoline, 318.
$C_{22}H_{15}O_4N_3$ 3-Nitro-5-*p*-nitrostyryl-7-methylacridine, 347.

$C_{22}H_{16}ON_2$ Benzamidophenylquinolines, 317.
$C_{22}H_{17}ON_3$ Dibenzoylphenacylamine, 317.
$C_{22}H_{18}O_2N_2$ 2:3-Di-*p*-anisylquinoxaline, 612.
$C_{22}H_{19}O_4N_3$ 2-Nitro-5-benzyloxyphenylpyruvic acid phenylhydrazone, 49.
$C_{22}H_{19}N_2Cl$ 5-Aminostyrylacridine methochlorides, 7.
$C_{22}H_{20}N_3Cl$ 3-Amino-5-*p*-aminostyrylacridine methochloride, 347.
$C_{22}H_{21}O_4N$ 4′-Nitro-2-styryl-7-methyl-3-*n*-butylchromone, 435.
$C_{22}H_{21}N_4Cl$ 3:7-Diamino-5-*p*-aminostyrylacridine methochloride, 347.
$C_{22}H_{22}O_4N_2$ Ethyl 4-quinolyl-2:6-dimethylpyridine-3:5-dicarboxylates, 415.
$C_{22}H_{24}O_4N_2$ Ethyl 4-quinolyl-2:6-dimethyldihydropyridine-3:5-dicarboxylates, 414.
$C_{22}H_{24}O_5N_2$ Ethyl methoxyquinolyl-2:5-dimethylpyrrole-3:4-dicarboxylates, 420.
$C_{22}H_{27}ON_3$ 8-β′-Phenyl*iso*propyl-γ-aminopropylamino-6-methoxyquinoline, and its salts, 563.
$C_{22}H_{27}N_4Br$ ψ-6-Amino-2-*p*-dimethylaminostyryl-1-γ-aminopropylquinolinium bromide, hydrobromide o, 560.
$C_{22}H_{33}O_5N$ Delpheline, and its salts, 140.

22 IV

$C_{22}H_{20}ON_3I$ [2-(3-Keto-1-methyl-3:4-dihydroquinoxaline)][2-(1-methylquinoline)]trimethincyanine iodide, 396.
$C_{22}H_{21}O_3NS$ 5-Methylacridine metho-*p*-toluenesulphonate, 6.

22 V

$C_{22}H_{22}ON_3IS$ [2-(3-Hydroxy-1-ethylquinoxaline)][2-(1-ethylbenzthiazole)]trimethincyanine iodide, 396.

C_{23} Group.

$C_{23}H_{20}O_4$ Trimethylbenzoylnaphtho-acetoxylactones, 240.
$C_{23}H_{34}O_3$ 6″-Hydroxy-4″-*n*-heptyloxy-2:2:5′-trimethyl-3′:4′:5′:6′-tetrahydrodibenzopyran, 286.
$C_{23}H_{46}O_2$ *n*-Heptyl-*n*-tetradecylacetic acid, 618.
$C_{23}H_{48}O$ 3-Decyltridecanol, 619.
Methyl-*n*-nonyl-*n*-dodecylcarbinol, 618.

23 III

$C_{23}H_{16}O_2N_4$ 3-(2-Keto-1-phenyldihydroquinoxalyl)-3-(2-ketodihydroquinoxalyl)methane, 400.
$C_{23}H_{16}O_3N_2$ 3-Benzamido-2-phenylquinoline-4-carboxylic acid, 318.
$C_{23}H_{16}O_5N_4$ 3-Nitro-7-acetamido-5-*p*-nitrostyrylacridine, 347.
$C_{23}H_{17}O_3N_3$ 1-Benzamido-6:17-diketo-6:8:15:17-tetrahydro-7:16-diazanaphthacene, 659.
$C_{23}H_{17}O_4N_5$ 6-Nitro-4-*p*-tolueneazonaphthalene-1-azoresorcinol, 393.
$C_{23}H_{18}ON_2$ 5-*m*-Acetamidostyrylacridine, 7.
$C_{23}H_{18}ON_4$ *s*-Bis-α-4-pyridylphenylurea, 413.
$C_{23}H_{18}O_2N_2$ 2:4-Diphenylpyrrole-5-aldehyde *p*-nitrophenylhydrazone, 597.
$C_{23}H_{18}N_2S_2$ Trimethin[2-(3-ethyldihydrobenzthiazole)][2-(*peri*naphtha-1:3-thiazine)], 490.
$C_{23}H_{21}O_2N$ Phenyl-2-benzamidophenylallylcarbinol, 451.
$C_{23}H_{22}O_4N_4$ [Bis-2-(3-hydroxy-1-methylquinoxaline)]trimethincyanine acetate, 396.
$C_{23}H_{23}O_3N$ Phenyl-2-acetamidophenyl-β-phenylethylcarbinol, 451.
$C_{23}H_{23}O_4N$ 4′-Nitro-2-styryl-7-methyl-3-*n*-amylchromone, 435.
$C_{23}H_{34}O_3N_2$ 8-ω-Carbethoxydecylamino-6-methoxyquinoline, 560.
$C_{23}H_{38}ON_4$ 8-ω-Aminodecyl-γ-aminopropylamino-6-methoxyquinoline, and its meconate, 559.

23 IV

$C_{23}H_{12}O_4N_4Cl_4$ 2:3:5:6-Tetrachloro-4-nitrobenzeneazo-2′-hydroxy-3′-naphthanilide, 234.
$C_{23}H_{13}O_5N_4Cl_3$ 2:3:5-Trichloro-4-nitro-6-hydroxybenzeneazo-2′-hydroxy-3′-naphthanilide, 237.
$C_{23}H_{18}ON_2S$ Trimethin[2-(3-ethyldihydrobenzoxazole)][2-(*peri*naphtha-1:3-thiazine)], and its hydrochloride, 490.
$C_{23}H_{22}O_2ClAs$ 2-Phenyl-2-*p*-chloro-1:2:3:4-tetrahydro*iso*arsinolinium hydroxide, salts of, 553.
$C_{23}H_{22}O_3N_2Br$ ψ-6-Acetamido-2-methyl-1-γ-phthalimidopropylquinolinium bromide, 560.
$C_{23}H_{24}ON_2I$ [2-(3-Keto-1-methyl-3:4-dihydroquinoxaline)][2-(1:3:3-trimethylindoline)]trimethincyanine iodide, 396.

23 V

$C_{23}H_{12}O_3N_3Cl_3Br$ 2:3:5-Trichloro-4-bromo-6-hydroxybenzeneazo-2′-hydroxy-3′-naphthanilide, 237.
$C_{23}H_{21}OClBrAs$ *dl*-2-Phenyl-2-*p*-chlorophenacyl-1:2:3:4-tetrahydro*iso*arsinolinium bromide, preparation and resolution of, 550.
$C_{23}H_{21}OClIAs$ *dl*-2-Phenyl-2-*p*-chlorophenacyl-1:2:3:4-tetrahydro*iso*arsinolinium iodide, 553.
$C_{23}H_{24}ON_3IS$ [2-(3-Keto-4-methyl-1-ethyldihydroquinoxaline)][2-(1-ethylbenzthiazole)]trimethincyanine iodide, 397.

C_{24} Group.

$C_{24}H_{16}$ 2-Phenylchrysene, 450.
Tetraphenylene, 326.

24 II

$C_{24}H_{15}Br$ Bromotetraphenylene, 327.
$C_{24}H_{16}N_2$ 4-Phenyl-3-(1′-naphthyl)cinnoline, 450.
$C_{24}H_{19}N$ α-Phenyl-α-(2-aminophenyl)-β-(1′-naphthyl)ethylenes, 449.
$C_{24}H_{24}O_2$ β-Phenyl-αα-di-(*p*-ethoxyphenyl)ethylene, 394.
$C_{24}H_{26}O_2$ Di-(*p*-ethoxyphenyl)benzylcarbinol, 394.
$C_{24}H_{30}O$ α-(2:2-Dimethylchromanyl-3)-β-(2:3-dimethylchromanyl-2)-ethane, 476.
$C_{24}H_{48}O_2$ Methyl-*n*-heptyl-*n*-tetradecylacetic acid, 618.

24 III

$C_{24}H_{12}O_8N_4$ Tetranitrotetraphenylene, 327.
$C_{24}H_{17}O_4N_3$ α-(2:4-Dinitrophenyl)-β-(2:4-diphenyl-5-pyrrolyl)ethylene, 597.
$C_{24}H_{18}O_2N_4$ 3-(2-Keto-1-methyldihydroquinoxalyl)-3-(2-keto-1-phenyldihydroquinoxalyl)methane, 400.
2-(3-Methyl-4-quinazolonyl)-3-(2-keto-1-phenyldihydroquinoxalyl)methane, 400.
$C_{24}H_{21}ON_3$ [2-(3-Keto-4-phenyl-1-methyldihydroquinoxaline)][(4-dimethylaminophenyl)]dimethincyanine, 397.
$C_{24}H_{23}O_3Br$ β-Bromo-β-phenyl-αα-di-(*p*-ethoxyphenyl)ethylene, 394.
$C_{24}H_{23}N_2Cl$ 5-*p*-Dimethylaminostyrylacridine methochloride, 7.
$C_{24}H_{24}O_4N_2$ Deca-3:7-dien-5-yn-2:9-diol bisphenylurethane, 269.
$C_{24}H_{26}O_2N_4$ 8-γ-Phthalimidopropyl-γ-aminopropylamino-6-methoxyquinoline, dihydrobromide of, 556.
$C_{24}H_{32}O_4N_2$ Decane-2:9-diol bisphenylurethane, 269.

24 IV

$C_{24}H_{15}O_5N_4Cl_3$ 2:3:5-Trichloro-4-nitro-6-methoxybenzeneazo-2′-hydroxy-3′-naphthanilide, 237.
$C_{24}H_{19}O_2N_4Cl$ 3-(2-Keto-1-methyldihydroquinoxalyl)-3-(2-keto-1-phenyldihydroquinoxalyl)methane hydrochloride, 400.
$C_{24}H_{20}O_6N_2S_2$ 6-Nitrodi-*p*-toluenesulphon-1-naphthalide, 391.
$C_{24}H_{20}N_2IS$ [2-(1-Methylbenzthiazole)][2-(1-phenyl-3-methylquinoxaline)]methincyanine iodide, 399.
$C_{24}H_{22}O_4N_2S_2$ *NN′*-Ditoluene-*p*-sulphonyl-1:4-naphthylenediamine, 636.
$C_{24}H_{24}O_4N_2S$ 3-Acetamido-5-methylacridine metho-*p*-toluenesulphonate, 346.
$C_{24}H_{26}ON_3Cl$ [2-(3-Keto-1:4-dimethyldihydroquinoxaline)][2-(1:3:3-trimethylindoline)]trimethincyanine chloride, 396.
$C_{24}H_{28}O_6N_4S$ [3-Bis-(3-keto-1:4-dimethyldihydroquinoxaline)]trimethincyanine sulphate, 396.
$C_{24}H_{33}O_6N_7S_2$ Tri-(β-*p*-aminobenzenesulphonamidoethyl)amine, 608.

24 V

$C_{24}H_{21}ON_2IS$ [2-(3-Ethylbenzoxazole)][2-(3-methyl*peri*naphtha-1:3-thiazine)]trimethincyanine iodide, 490.

C_{25} Group.

$C_{25}H_{17}N_3$ 2:3-Diphenyl-6-α-pyridylquinoxaline, 405.
6-β-Pyridyl-2:3-diphenylquinoxaline, 413.
$C_{25}H_{34}N_2$ 5-Dodecylaminoacridine, and its hydrochloride, 654.
$C_{25}H_{48}O_2$ Ethyl 3-decyl-Δ^2-tridecenoate, 619.
$C_{25}H_{50}O_2$ β-*n*-Decyl-β-*n*-dodecylpropionic acid, 618.
Ethyl 3-decyltridecoate, 619.
Methyl-*n*-decyl-*n*-dodecylacetic acid, 617.
3-Methyl-2-*n*-dodecyl-lauric acid, 618.

25 III

$C_{25}H_{21}O_2N_3$ 3-Acetamido-5-*p*-acetamidostyrylacridine, 347.
$C_{25}H_{39}O_2N$ Lycoctonine, 141.
$C_{25}H_{51}ON$ Methyldecyldodecylacetamide, 617.

25 IV

$C_{25}H_{21}O_5N_3S$ *NN′*-Diphenylbenzamidine *p*-nitrobenzenesulphonate, 103.
$C_{25}H_{24}ON_3Cl$ [2-(3-Keto-4-phenyl-1-methyldihydroquinoxaline)][(4-dimethylaminophenyl)]dimethincyanine chloride, 397.
$C_{25}H_{40}ON_3Cl$ 5-Chloro-8-ω-diethylaminoundecylamino-6-methoxyquinoline, hydrochloride of, 559.

25 V

$C_{25}H_{23}ON_2IS$ [2-(3-Ethylbenzoxazole)][2-(3-ethyl*peri*naphtha-1:3-thiazine)]trimethincyanine iodide, 491.

C_{26} Group.

$C_{26}H_{22}O_3$ 4′-Methoxy-2-styryl-3-benzyl-7-methylchromone, 435.
$C_{26}H_{34}O_3$ β-Phenyl-ααβ-trimethyl-*n*-butyric anhydride, 429.
$C_{26}H_{52}O_2$ Ethyl-*n*-decyl-*n*-dodecylacetic acid, 618.
β-Methyl-β-*n*-decyl-β-*n*-dodecylpropionic acid, 618.
2-Methyl-5-decylpentadecoic acid, 619.
4-Methyl-3-*n*-dodecyltridecoic acid, 618.

26 III

$C_{26}H_{23}O_2N_3$ 3-Acetamido-5-*p*-acetamidostyryl-7-methylacridine methochloride, 347.
$C_{26}H_{23}N_2Cl$ *p*-Chloro-(αβ-bis-*p*-tolylethylamino)vinylbenzene, 67.
$C_{26}H_{53}ON$ Ethyl-*n*-decyl-*n*-dodecylacetamide, 618.
$C_{26}H_{53}ON$ β-Methyl-β-*n*-decyl-β-*n*-dodecylpropionamide, 618.

26 IV

$C_{26}H_{18}O_5N_2S$ 1:4-Dianilinoanthraquinone-2-sulphonic acid, salts, 46.
$C_{26}H_{20}O_5N_4S$ Aniline 1-diazophenylaminoanthraquinone-2-sulphonate, 46.

26 V

$C_{26}H_{22}ON_3ClS$ [2-(3-Keto-4-phenyl-1-methyl-3:4-dihydroquinoxaline)][2-(1-methylbenzthiazole)]trimethincyanine chloride, 397.
$C_{26}H_{28}O_2N_4Cl_2S$ Bis-(8-γ-chloropropylamino-6-methoxy-5-quinolyl) sulphide, and its hydrochloride, 562.

C_{27} Group.

$C_{27}H_{44}O$ Δ^4-Cholestenone, 602.
$C_{27}H_{46}O_2$ β-Cholesterol oxide, 613.
$C_{27}H_{54}O_2$ Methyl β-methyl-β-decyl-β-dodecylpropionate, 618.

27 III

$C_{27}H_{30}O_3N_2$ 1-Anilino-4-*p*-toluidinoanthraquinone, 47.
$C_{27}H_{20}N_2S_2$ Trimethin[2-(3-ethyldihydrobenzbenzthiazole)][2-(*peri*naphtha-1:3-thiazines)], 490.
$C_{27}H_{24}O_2N_4$ 3:7-Bis(acetamido)-5-*p*-acetamidostyrylacridine, 347.
$C_{27}H_{44}O_3S$ *cis*-Δ^5-Cholestene-3:4-diol *endo*sulphite, 139.

27 IV

$C_{27}H_{20}ON_2S$ Trimethin[2-(3-ethyldihydrobenzbenzoxazole)][2-(*peri*naphtha-1:3-thiazines)], 490.
$C_{27}H_{20}O_5N_2S$ 4-Anilino-1-*p*-toluidinoanthraquinone-2-sulphonic acid, salts, 47.
$C_{27}H_{21}N_2IS_2$ Bis-2-(3-methyl*peri*naphtha-1:3-thiazine)trimethincyanine iodide, 489.
$C_{27}H_{25}O_2N_4Cl$ 2-Chloro-5-(6′-methoxyquinolyl-8′-γ-aminopropylamino)-7-methoxyacridine, and its dihydrochloride, 556.
$C_{27}H_{32}O_9N_6S_3$ $\alpha\beta\gamma$-Tri-(*p*-acetamidobenzenesulphonamido)propane, 608.

C_{28} Group.

$C_{28}H_{22}O_4$ Trimethylbenzoyl-1-naphthobenzoyloxy-lactone, 240.

28 III

$C_{28}H_{16}O_4N_2$ 4:4′-Diamino-1:1′-dianthraquinonyl, 47.
$C_{28}H_{22}O_2N_2$ 1-Anilino-4-*m*-4′-xylidinoanthraquinone, 47.
$C_{28}H_{33}O_3N_3$ 8-ω-Phthalimidodecylamino-6-methoxyquinoline, and its hydrochloride, 558.

28 IV

$C_{28}H_{14}O_4N_2Br_2$ 2:2′-Dibromo-4:4′-diamino-1:1′-dianthraquinonyl, 47.
$C_{28}H_{15}O_{10}N_2S_2$ 4:4′-Diamino-1:1′-dianthraquinonyl-3:3′-disulphonic acid, salts, 47.
$C_{28}H_{22}ON_2Cl_2$ Di-(β-phenylamino-α-*p*-chlorophenylvinyl) ether, 65.
$C_{28}H_{22}O_5N_2S$ 4-Anilino-1-*m*-4′-xylidinoanthraquinone-2-sulphonic acid, salts, 47.
$C_{28}H_{24}O_4N_2S_2$ Bis-2-(3-methyl*peri*naphtha-1:3-thiazine)trimethincyanine methyl sulphate, 489.
$C_{29}H_{42}N_2$ 5-Hexadecylaminoacridine, and its hydrochloride, 654.

C_{29} Group.

$C_{29}H_{48}O_2$ 4-Acetoxy-Δ^5-cholesten-3-ol, 137.
$C_{29}H_{48}O_4$ 3-*O*-Carbomethoxy-4-hydroxycholesterol, 439.

29 III

$C_{29}H_{47}O_2Cl$ 4-Chloro-3-acetoxy-Δ^5-cholestene, 138.

29 IV

$C_{29}H_{23}N_2IS_2$ Bis-2-(3-methyl*peri*naphtha-1:3-thiazine)pentamethincyanine iodide, 489.
$C_{29}H_{25}N_2IS_2$ Bis-2-(3-ethyl*peri*naphtha-1:3-thiazine)trimethincyanine iodide, 489.
$C_{29}H_{27}O_5N_3S$ [2-(3-Keto-4-phenyl-1-methyl-3:4-dihydroquinoxaline)][2-(1-methylquinoline)]trimethincyanine sulphate, 397.
$C_{29}H_{28}ON_2Cl$ [2-(3-Keto-4-phenyl-1-methyl-3:4-dihydroquinoxaline)][2-(1:3:3-trimethylindoline)]trimethincyanine chloride, 397.
$C_{29}H_{36}O_8N_8S_4$ Tetra-(*p*-aminobenzenesulphonamidomethyl)methane, 608.

C_{30} Group.

$C_{30}H_{46}O_4$ Melanthigenin, constitution of, 70.
$C_{30}H_{50}O_3$ 4-Propionoxy-Δ^5-cholesten-3-ol, 138.
$C_{30}H_{50}O_4$ 3-*O*-Carbethoxy-4-hydroxycholesterol, 440.
$C_{30}H_{58}O_4$ Ethyl (3-decyltridecyl)malonate, 619.
Ethyl *sec.*-undecyl-*n*-dodecylmalonate, 618.

30 III

$C_{30}H_{12}O_{12}N_2$ Dinitro-2:2′-dianthraquinonyl-1:1′-dicarboxylic acid, 32.
$C_{30}H_{52}ON_4$ 8-ω-Aminodecyl-ω-aminodecylaminodecylamino-6-methoxyquinoline, and its meconate, 558.

30 IV

$C_{30}H_{38}O_8N_8S_4$ Tetra-(*p*-aminobenzenesulphonamidoethyl)ethylenediamine, 609.
$C_{30}H_{39}O_9N_7S_3$ Tri-(β-*p*-acetamidobenzenesulphonamidoethyl)amine, 608.

C_{31} Group.

$C_{31}H_{32}O_3$ 4-Butyroxy-Δ^5-cholesten-3-ol, 138.
$C_{31}H_{46}O_3$ Nor-α-amyradiononyl acetate, 524.
$C_{31}H_{50}O_5$ 3-*O*-Carbomethoxy-4-acetoxycholesterol, 439.

C_{32} Group.

$C_{32}H_{18}O_8$ Methyl 2:2′-dianthraquinonyl-1:1′-dicarboxylate, 32.
$C_{32}H_{23}N_3$ 2:2′:4:4′-Tetraphenylazadipyrromethine, and its metallic complexes, 592.
$C_{32}H_{26}O_4$ Dienœstrol dibenzoate, 612.
$C_{32}H_{28}O_5$ γγ-Bis-4-hydroxyphenylhexan-δ-one dibenzoate, 612.
$C_{32}H_{30}O_2$ Dienœstrol dibenzyl ether, 612.
$C_{32}H_{30}O_6$ γδ-Bis-4-hydroxyphenylhexane-γδ-diol dibenzoate, 611.
$C_{32}H_{48}O_5$ Ketoacetylursolic acid, 524.
$C_{32}H_{50}O_4$ Acetylursolic acid, oxidation of, 523.
$C_{32}H_{52}O_4$ 3-Acetoxy-4-propionoxy-Δ^5-cholestene, 138.
$C_{32}H_{52}O_5$ 3-*O*-Carbethoxy-6-acetoxy-Δ^4-cholesten-3-ol, 440.
3-*O*-Carbethoxy-4-acetoxycholesterol, 440.

32 III

$C_{32}H_{16}O_{12}N_2$ Methyl dinitro-2:2′-dianthraquinonyl-1:1′-dicarboxylate, 32.
$C_{32}H_{21}O_4N_5$ 2:2′-Diphenyl-4:4′-di-(*m*-nitrophenyl)azadipyrromethine, 592.
$C_{32}H_{28}O_6N_4$ 8-Di-γ-phthalimidopropylamino-6-methoxyquinoline, and its hydrobromide, 556.
$C_{32}H_{30}O_6S_2$ Dienœstrol ditoluene-*p*-sulphonate, 612.
$C_{32}H_{32}O_2N_2$ 2:2′-Diphenyl-4:4′-di-(*m*-hydroxyphenyl)azadipyrromethine, 593.
$C_{32}H_{34}O_6S_2$ γδ-Bis-4-hydroxyphenylhexane-γδ-diol ditoluene-*p*-sulphonate, 611.
$C_{32}H_{44}O_8N_2$ Anthranoyl-lycoctonine, 141.

32 IV

$C_{32}H_{26}O_2N_2Cl_2$ Diacetyl-di-(β-phenylamino-α-*p*-chlorophenylvinyl) ether, 65.
$C_{32}H_{31}O_3N_4Br$ ψ-6-Acetamido-2-*p*-dimethylaminostyryl-1-γ-phthalimidopropylquinolinium bromide, 560.

C_{33} Group.

$C_{33}H_{24}N_2$ 2:2′:4:4′-Tetraphenyldipyrromethine, and its copper complex, 597.
$C_{33}H_{36}O_{12}$ Hexa-acetoxy-3:3:3′:3′-tetramethylbis-1:1′-*spiro*hydrindenes, 486.
$C_{33}H_{54}O_4$ 3-Acetoxy-4-butyroxy-Δ^5-cholestene, 138.

33 III

$C_{33}H_{25}ON_3$ 2:2′:4-Triphenyl-4′-*p*-anisylazadipyrromethine, 595.

C_{34} Group.

$C_{34}H_{29}N_3$ *NN*-Di-(β-phenylamino-α-phenylvinyl)aniline, 64.
$C_{34}H_{50}O_2$ 4-Benzoyloxy-Δ^5-cholesten-3-ol, 138.
β-Cholesterol benzoate, 614.
$C_{34}H_{52}O_5$ Ethyl ketoacetylursolate, 524.

34 III

$C_{34}H_{14}O_6N_2$ Dinitrodibenzanthrone, 31.
$C_{34}H_{24}ON_2$ 2:2′:4-Triphenyl-4′-*p*-anisyldipyrromethine, 597.
$C_{34}H_{20}O_{12}N_2$ Ethyl dinitro-2:2′-dianthraquinonyl-1:1′-dicarboxylate, 32.
$C_{34}H_{23}O_4N_3$ 2:2′-Diphenyl-4:4′-di-(3:4-methylenedioxyphenyl)azadipyrromethine, 593.
$C_{34}H_{27}O_2N_3$ 2:2′-Di-*p*-anisyl-4:4′-diphenylazadipyrromethine, 593.
2:2′-Diphenyl-4:4′-di-*p*-anisylazadipyrromethine, 593.
$C_{34}H_{27}N_3Cl_2$ *NN*-Di-(β-phenylamino-α-*p*-chlorophenylvinyl)aniline, 66.
$C_{34}H_{49}O_4Cl$ 4-Chloro-3-benzoyloxy-Δ^5-cholestene, 139.

34 IV

$C_{34}H_{30}O_4N_6S$ [Bis-2-(3-keto-4-phenyl-1-methyldihydroquinoxaline)]trimethincyanine sulphate, 397.
$C_{34}H_{48}O_2N_6S$ Bis-(8-γ-diethylaminopropylamino-6-methoxy-5-quinolyl) sulphide, and its hydrochloride, 562.

C_{35} Group.

$C_{35}H_{27}O_4N_4Cl$ 2-Chloro-5-γ-phthaliminopropylamino-(*N*-6′-methoxy-8′-quinolyl)-7-methoxyacridine, 556.

C_{36} Group.

$C_{36}H_{35}N_5$ 2:2′-Diphenyl-4:4′-di-(*p*-dimethylaminophenyl)azadipyrromethine, 593.
$C_{36}H_{52}O_5$ 3-*O*-Carbomethoxy-4-benzoyloxycholesterol, 435.

36 III

$C_{36}H_{29}O_2N_5$ 2:2′-Diphenyl-4:4′-di-(*p*-acetamidophenyl)azadipyrromethine, 593.
$C_{36}H_{31}O_4N_3$ 2:2′:4:4′-Tetra-*p*-anisylazadipyrromethine, 593.
$C_{36}H_{53}O_4Cl$ 5-Chloro-3-acetoxy-6-benzoyloxycholestane, 614.

C_{37} Group.

$C_{37}H_{35}N_3$ *NN*-Di-(β-*p*-tolylamino-α-phenylvinyl)-*p*-toluidine, 64.
$C_{37}H_{54}O_5$ 3-*O*-Carbethoxy-4-benzoyloxycholesterol, 440.

37 III

$C_{37}H_{48}O_{10}N_2$ Methyl-lycaconitine, and its hydriodide, 140.

37 IV

$C_{37}H_{44}O_{12}N_8S_4$ Tetra-(*p*-acetamidobenzenesulphonamidomethyl)methane, 608.

C_{38} Group.

$C_{38}H_{39}N_5I_2$ 2:2′-Diphenyl-4:4′-di-(*p*-dimethylaminophenyl)azadipyrromethine dimethiodide, 593.

38 IV

$C_{38}H_{46}O_{12}N_8S_4$ Tetra-(*p*-acetamidobenzenesulphonamidoethyl)ethylenediamine, 609.
$C_{39}H_{28}N_2$ 2:2′:4:4′-Tetraphenyl-*meso*-phenyldipyrromethine, and its copper complex, 597.

C_{53} Group.

$C_{53}H_{36}N_4$ 3:3′-Dibenzylideneamino-2:2′:4:4′-tetraphenyl-*meso*-phenyldipyrromethine, 598.

53 III

$C_{53}H_{38}O_2N_4$ 3:3′-Dibenzamido-2:2′:4:4′-tetraphenyl-*meso*-phenyldipyrromethine, 599.

C_{56} Group.

$C_{56}H_{42}O_3N_4$ 3:3′-(Di-*p*-anisylideneamino)-2:2′:4:4′-tetraphenyl-*meso*-*p*-anisyldipyrromethine, 598.

C_{58} Group.

$C_{58}H_{94}O_7S$ Bis-(4:4′-acetoxycholesteryl) sulphite, 139.

SYMBOLS FOR THERMODYNAMICAL AND PHYSICO-CHEMICAL QUANTITIES AND CONVENTIONS RELATING TO THEIR USE, ADOPTED AS RECOMMENDED PRACTICE BY THE CHEMICAL SOCIETY.

(Where two or more symbols separated by commas or semicolons are given for a quantity, these symbols are to be regarded as alternatives for which no preference is expressed. On the other hand, where two symbols are separated by a dotted line, the former is the first preference.)

1. To be Printed in Black Italic.

(Certain important physical constants.)

F Faraday's constant.
J Mechanical equivalent of heat.
N Avogadro's number.
R Gas constant per mol. / Rydberg's constant.
c Velocity of light in vacuo.
e Electronic charge (charge equal and opposite in sign to that of an electron).
g Acceleration due to gravity (standard value, if variation from standard is significant).
h Planck's constant.
k Boltzmann's constant.
m Rest mass of an electron.

2. To be Printed in Ordinary Italic, when not Greek.

General Physics and Chemistry.

Length	l
mean free path of molecules	l
height	h
diameter, distance	d
diameter of molecules	σ
radius	r
Mass	m
molecular weight	M
atomic weight	A
atomic number	Z
gram-equivalent weight	Z, J
Time	t
time interval, especially half- or mean-life	τ
frequency	ν
Velocity	v; c, (u, v, w)
of ions	u (with subscript)
angular	ω
Acceleration	$f \ldots a$
due to gravity (as variable)	g
Force	F, (X, Y, Z)
Moment of inertia	I
Pressure	p, P
especially osmotic	Π
Volume	v, V
Density	$\rho \ldots d$
Compressibility	$\kappa \ldots K$

Viscosity	η
Fluidity	ϕ
Surface area	$A \ldots s$
Angle of contact	θ
Surface tension	$\gamma \ldots \sigma$
Parachor	$[P]$
Surface concentration excess	Γ
Number of mols	n
Concentration, mol fraction	N, x
in other terms	c, C
Solubility	s
Diffusion coefficient	D
Chemical equilibrium constant (products/reactants)	K
solubility product	$K_s \ldots L$
Velocity constant of chemical reaction	k
Number of molecular collisions per second	Z
Partition function	f
Efficiency, of any process	η
Wave function	ψ

Heat and Thermodynamics.

Temperature, on absolute scale, (°K)	T
on other scales	$\theta \ldots t$
Thermal conductivity	k
Energy (general symbol)	E
Work done by or on a system	$w \ldots W$
Heat entering a system	q
Specific heat	c_p and c_v
molecular heat	C_p and C
Ratio of specific heats	γ
Latent heat, per g.	l
per mol	L
Intrinsic energy	$U \ldots E$
Enthalpy, total heat, or heat content	H
Entropy	S
Free energy (Helmholtz)	$A \ldots F$
Thermodynamic potential, Gibbs function, free energy (G. N. Lewis)	G
Vapour pressure constant	i
Chemical potential	μ
Activity	a
coefficient (for molar concentration)	f
Osmotic coefficient	g
Van 't Hoff's factor	i

Electricity.

Quantity of electricity	Q
especially electrostatic charge	e
Potential (difference)	V
Volta potential	V
electrokinetic potential	ζ
especially electromotive force of voltaic cells	E
Potential gradient, in electric field	X
Electronic exit work function	ϕ

Current	I
Resistance	R
specific resistance	$\rho \ldots r$
specific conductance	$\kappa \ldots \sigma$
Inductance, self	L
mutual	M
Electrostatic capacity	C
Dielectric constant	ϵ
Dipole moment	μ

Electrochemistry.

Degree of electrolytic dissociation	α
Valency of an ion	z
Ionic strength	I
Equivalent conductance	Λ
equivalent ionic conductance, "mobility"	l (with subscript)
Transport number	T (with subscript) . . . n (with subscript)
Single electrode potential	e (with subscript), E (with subscript)
Electrolytic polarisation, overvoltage	$\eta \ldots \pi$

Magnetism.

Magnetic field strength	H
flux	ϕ
permeability	μ
susceptibility—volume	κ
mass	χ
moment	M
induction	B

Optics.

Wave length	λ
Wave number	ν
Intensity of light	I
Refractive index	n (with subscript) . . . μ (with subscript)
specific refraction	r (with subscript)
molecular refraction	$[R]$ (with subscript)
Molar extinction coefficient	ϵ
Angle of (optical) rotation	α
specific rotation	$[\alpha]$
Specific magnetic rotation	ω

3. To be Printed in Roman, when not Greek.

(a) *Examples of Mathematical Constants and Operators.*

Base of natural logarithms	e
Ratio of circumference to diameter	π
Differential	d
partial	∂
Increment	Δ
very small increment	δ
Sum	Σ
Product	Π
Function	f, ϕ

(b) *Examples of single-letter abbreviations.*

*Ampère (in sub-units)	a.
Volt	v.
Ohm	Ω.
Watt	w.
Farad	f.
Henry	h.
Centigrade	c.
Fahrenheit	f.
Kelvin	k.
Ångstrom unit	a.
micron	μ.
metre	m.
gram	g.
litre	l.
Röntgen unit	r.
†Normal (concentration)	n.
†Molar (concentration)	m.

The following prefixes to abbreviations for the names of units should be used to indicate the specified multiples or sub-multiples of these units:

M	mega-	$10^{6}\times$
k	kilo-	$10^{3}\times$
d	deci-	$10^{-1}\times$
c	centi-	$10^{-2}\times$
m	milli-	$10^{-3}\times$
μ	micro-	$10^{-6}\times$

e.g., MΩ. denotes megohm; kw., kilowatt; and μg., microgram. The use of μμ. instead of mμ. to denote 10^{-7} cm., or of γ to denote microgram is deprecated.

4. Subscripts and other Modifying Signs.

(a) *Subscripts to symbols for quantities.*

I, II . . .	*especially with symbols for thermodynamic functions*, referring to
1, 2 . . .	different systems or different states of a system.
A B .	referring to molecular species A, B, etc.
i	referring to a typical ionic species i.
u	referring to an undissociated molecule.
+, −	referring to a positive or negative ion, or to a positive or negative electrode.
p, v, T	indicating constant pressure, volume, and temperature respectively.
q	indicating adiabatic conditions.
w	indicating that no work is performed.
p, c, a	*with symbol for an equilibrium constant*, indicating that it is expressed in terms of pressure, concentration, or activity.
G, V, L, X	referring to gas, vapour, liquid, and crystalline states, respectively.
f, e, s, t, d	referring to fusion, evaporation (vaporisation of liquid), sublimation, transition, and dissolution or dilution respectively.
c	referring to the critical state or indicating a critical value.
0	referring to a standard state, or indicating limiting value at infinite dilution.

* *E.g.* " ma." for " milliampère "; but " amp." is preferred for " ampère."

† Separated by a hyphen (and no full stop) from a chemical formula which follows it.

C, D, F *with symbols for optical properties*, referring to a particular wavelength.

Where a subscript has to be added to a symbol which already carries a subscript, the two subscripts may be separated by a comma or the symbol with the first subscript may be enclosed in parentheses with the second subscript outside.

(b) *Other modifying signs.*

° *as right-hand superscript to symbol (particularly to a symbol for a general thermodynamic function—see p. 5)*, referring to a standard state.

[ ] *enclosing formula of chemical substance*, indicating its molar concentration.

{ } *enclosing formula of chemical substance*, indicating its molar activity.

In crystallography it is recommended that:

Millerian indices be enclosed in parentheses, ( );
Laue indices be unenclosed;
Indices of a plane family be enclosed in braces, { };
Indices of a zone axis or line be enclosed in brackets, [ ].

Numerals attached to a symbol for a chemical element in various positions have the following meanings:

upper left mass number of atom.
lower left nuclear charge of atom.
lower right number of atoms in molecule.

e.g., ${}^{7}_{3}\mathrm{Li}$; ${}^{2}_{1}\mathrm{H}_2$ (= D_2).

ALPHABETICAL INDEX OF RECOMMENDED SYMBOLS, and single-letter abbreviations.

including all those given in the above lists except prefixes, subscripts and other modifying signs.

The name of any quantity for which a given symbol is a second preference is printed in parentheses.

A free energy—Helmholtz; atomic weight; surface area.
A. Ångstrom unit.
a activity; (acceleration).
a. ampère, in sub-units—see footnote, p. 2093.
B magnetic induction.
C concentration; electrostatic capacity.
with subscript: molecular heat capacity.
c. Centigrade.
c velocity of light in vacuo.
c velocity; concentration.
with subscript: specific heat.
D diffusion coefficient.
d diameter; distance; (density).
d differential.
∂ partial differential.
E energy; (intrinsic energy); potential difference, especially electromotive force of voltaic cells.
with subscript: single electrode potential.
e electronic charge—charge equal and opposite in sign to that of an electron.
e quantity of electricity, especially electrostatic charge.
with subscript: single electrode potential.

e base of natural logarithms.
F Faraday's constant.
F force; (free energy—Helmholtz).
F. farad; Fahrenheit.
f acceleration; activity coefficient, for molar concentration; partition function.
f function.
G thermodynamic potential, Gibbs function, free energy—G. N. Lewis.
g acceleration due to gravity, standard value.
g acceleration due to gravity, as a variable; osmotic coefficient.
g. gram.
H enthalpy, total heat, heat content; magnetic field strength.
H. henry.
h Planck's constant.
h height.
I moment of inertia; ionic strength; electric current; intensity of light.
i vapour pressure constant; van 't Hoff's factor.
J mechanical equivalent of heat.
J gram-equivalent weight.
K chemical equilibrium constant; (compressibility).
K_s solubility product.
K. Kelvin.
k Boltzmann's constant.
k thermal conductivity; velocity constant of chemical reaction.
L latent heat per mol; self inductance; (solubility product).
l latent heat per g.; length; mean free path of molecules.
with subscript: equivalent ionic conductance, "mobility".
l. litre.
M molecular weight; mutual inductance; magnetic moment.
M. molar concentration.
m rest mass of an electron.
m mass.
m. metre.
N Avogadro's number.
N mol fraction.
N. normal concentration.
n number of mols.
with subscript: (transport number).
with subscript: refractive index.
P pressure.
[*P*] parachor.
p pressure.
Q quantity of electricity.
q heat entering a system.
R gas constant per mol; Rydberg's constant.
R electrical resistance.
[*R*] *with subscript:* molecular refraction.
r radius; (specific resistance).
with subscript: specific refraction.
r. Röntgen unit.
S entropy.
s solubility; (surface area).
T temperature, on absolute Kelvin scale.
with subscript: transport number.
t time; (temperature—not on absolute scale).
U intrinsic energy.
u velocity component.
with subscript: velocity of ions.
V volume; potential, potential difference, including Volta potential.

v. volt.
v volume; velocity; velocity component.
W (work done by or on a system).
w. watt.
w work done by or on a system; velocity component.
X force component; potential gradient in electric field.
x mol fraction.
Y force component.
Z force component; g.-equivalent weight; number of molecular collisions per second; atomic number.
z valency of an ion.

α degree of electrolytic dissociation; angle of optical rotation.
$[\alpha]$ specific optical rotation.
Γ surface concentration excess.
γ ratio of specific heats; surface tension.
Δ increment.
δ very small increment.
ϵ dielectric constant; molar extinction coefficient.
ζ electrokinetic potential.
η efficiency of any process; viscosity; electrolytic polarisation, overvoltage.
θ angle of contact; temperature—not on absolute scale.
κ compressibility; specific conductance; magnetic susceptibility—volume.
Λ equivalent conductance.
λ wave length.
μ chemical potential; dipole moment; magnetic permeability.
with subscript: (refractive index).
μ. micron.
ν frequency; wave number.
Π pressure, especially osmotic pressure.
Π product.
π (electrolytic polarisation, overvoltage).
π ratio of circumference to diameter.
ρ density; specific resistance.
Σ sum.
σ diameter of molecules; (surface tension); (specific conductance).
τ time interval, especially half or mean life.
ϕ fluidity; electronic exit work function; magnetic flux.
Φ function.
χ magnetic susceptibility—mass.
ψ wave function.
Ω. ohm.
ω angular velocity; specific magnetic rotation.

ERRATA.

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Page.	Line.	
1849	4	for " 2 : 3-*Dimethyl* " read " 2 : 4-*Dimethyl.*"

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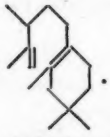
534 *The second formula for basseol should be*  .

537 *In the figure the numbers* II *and* III *should be interchanged.*

543 20 *The oxidation of methyl siaresinolate by the Oppenhauer reagent* (*see* p. 541) *is as follows :* Methyl siaresinolate (1 g.), aluminium *tert.*-butoxide (3·3 g.), *cyclo*hexanone (10 c.c.), and toluene (50 c.c.) were boiled for 18 hours, the mixture diluted with water and extracted with ether, the extract dried and evaporated, and the residue heated to 100° in a high vacuum. The residue crystallised from dilute acetone in plates, m. p. 214—215°, $[\alpha]_D$ + 57° (*c* = 1·75 in chloroform), giving a yellow colour with tetranitromethane (Found : C, 76·9; H, 10·1. $C_{31}H_{48}O_4$ requires C, 76·8; H, 10·0%).

544 23 *for* " $C_{29}H_{44}$ " *read* " $C_{29}H_{46}$."

545 16* The *dehydro-ester* was prepared as follows : Methyl acetyldihydro-α-elemolate (700 mg.) was boiled for 16 hours with freshly sublimed selenium dioxide (350 mg.) in AnalaR acetic acid (42 c.c.). The solution was evaporated to dryness under reduced pressure, the residue dissolved in ether, and the solution washed with water, sodium hydroxide, again with water, dried, and evaporated. The residue was dissolved in benzene, and the solution percolated through a short column of alumina. The solid recovered on evaporation of the benzene solution crystallised from methyl alcohol in flattened needles (400 mg.), m. p. 128—129° (Found : C, 77·1, 77·4; H, 10·4, 1·02. $C_{33}H_{52}O_4$ requires C, 77·3; H, 10·2%). As the intensity of the light absorption was less than had been expected, the compound was subjected to a lengthy repurification by chromatographic adsorption in petroleum solution, but was recovered unchanged and behaved like a pure compound.

550 41 *for* " β-Elemolic acid " *read* " β-Elemonic acid."

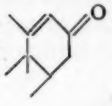
724 23 *for* " 50° " *read* " 5°."

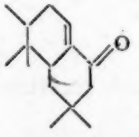
725 9 *for* " *NN'*-dimethyldiacridine " *read* " *NN'*-dimethyldiacridene."

19 *for* " *NN'*-Dimethyldiacridine " *read* " *NN'*-Dimethyldiacridene."

5* for " NN'-*Dimethyldiacridine* " read " NN'-*Dimethyldiacridene.*"

741 22 for " *Helv. Chim. Acta*, 1942, **25**, 775 " *read* " *Helv. Chim. Acta*, 1942, **25**, 1236."

in formula (III) *ring* D *should be* 

742 *formula* (VII) *should be* 

750 *add* H *in formula* (I).

752 30* *for* " -*d*-galactoside " *read* " *l*-galactoside."

39* *for* " ← " *read* " → " *in bottom row of formulæ.*

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52 34* *for* " below " *read* " above."

80 2 *for* " phosphoric oxide " *read* " phosphoric oxide (14 g.)."

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* From bottom.

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